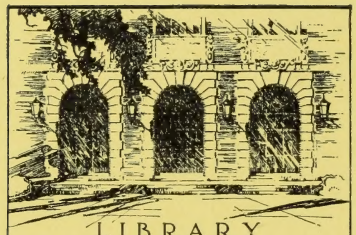

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BULLETIN OF INFORMATION

VOL. IV APRIL, 1904 NO. 1

The Departments of Arts, Literature, and Science

THE GRADUATE SCHOOLS

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PUBLISHED FOUR TIMES A YEAR BY
THE UNIVERSITY OF CHICAGO
FIFTY-EIGHTH STREET AND ELLIS AVENUE
CHICAGO, ILL.

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CALENDAR FOR THE YEAR 1904–5.

THE MEETINGS OF THE BOARD OF TRUSTEES ARE HELD ON THE SECOND TUESDAY OF EACH MONTH.

1904

June 12	Sunday	CONVOCATION SUNDAY.
June 13	Monday	CLASS AND ALUMNI DAY. MATRICULATION and REGISTRATION of incoming students. SUMMER MEETING of the *University Congregation.*
June 14	Tuesday	QUARTERLY EXAMINATIONS.
June 15	Wednesday	
June 16	Thursday	
June 17	Friday	
June 16	Thursday	FOUNDER'S DAY. — SUMMER CONVOCATION of the *University.* MATRICULATION and REGISTRATION of incoming students.
June 18	Saturday	FIRST TERM of Summer Quarter begins.
June 10	Friday	SUMMER EXAMINATIONS for admission to the *Junior Colleges.*
June 11	Saturday	
June 13	Monday	
June 14	Tuesday	
July 4	Monday	INDEPENDENCE DAY: a holiday.
July 27	Wednesday	EXAMINATIONS for the First Term of the Summer Quarter. FIRST TERM of Summer Quarter ends. MATRICULATION and REGISTRATION of incoming students for the Second Term of *Summer* Quarter.
July 28	Thursday	SECOND TERM of Summer Quarter begins.
Aug. 2	Tuesday	REGISTRATION of resident students for the *Autumn* Quarter.
Aug. 3	Wednesday	
Aug. 4	Thursday	
Sept. 1	Thursday	EXAMINATIONS for Second Term of the Summer Quarter. AUTUMN MEETING of the *University Congregation.*
Sept. 2	Friday	AUTUMN CONVOCATION of the *University.* SECOND TERM of Summer Quarter ends.
Sept. 3–Sept. 30		SUMMER RECESS.
Sept. 16	Friday	AUTUMN EXAMINATIONS for admission to the *Junior Colleges.*
Sept. 17	Saturday	
Sept. 19	Monday	
Sept. 20	Tuesday	
Oct. 1	Saturday	FIRST TERM of Autumn Quarter begins. MATRICULATION and REGISTRATION of incoming students.
Nov. 12	Saturday	FIRST TERM of Autumn Quarter ends.
Nov. 14	Monday	SECOND TERM of Autumn Quarter begins.
Nov. 24	Thursday	THANKSGIVING DAY: a holiday.
Nov. 29	Tuesday	REGISTRATION of resident students for the *Winter* Quarter.
Nov. 30	Wednesday	
Dec. 1	Thursday	
Dec. 2	Friday	
Dec. 8	Thursday	THE ANNUAL DEBATE.
Dec. 16	Friday	WINTER EXAMINATIONS for admission to the *Junior Colleges.*
Dec. 17	Saturday	
Dec. 19	Monday	
Dec. 20	Tuesday	
Dec. 18	Sunday	CONVOCATION SUNDAY.
Dec. 19	Monday	WINTER MEETING of the *University Congregation.*
Dec. 20	Tuesday	WINTER CONVOCATION of the *University.*
Dec. 20	Tuesday	QUARTERLY EXAMINATIONS.
Dec. 21	Wednesday	
Dec. 22	Thursday	
Dec. 22	Thursday	SECOND TERM of Autumn Quarter ends.
Dec. 23–31		QUARTERLY RECESS.

1905

Jan. 2	Monday	FIRST TERM of Winter Quarter begins. MATRICULATION and REGISTRATION of incoming students.
Feb. 10	Friday	FIRST TERM of Winter Quarter ends.
Feb. 11	Saturday	SECOND TERM of Winter Quarter begins.
Feb. 22	Wednesday	WASHINGTON'S BIRTHDAY: A Holiday.
Feb. 23	Thursday	THE ANNUAL CONTEST in Oratory.
Mar. 1	Wednesday	LAST DAY for receiving applications for fellowships.
Feb. 28	Tuesday	REGISTRATION of resident students for the *Spring* Quarter.
Mar. 1	Wednesday	
Mar. 2	Thursday	
Mar. 3	Friday	
Mar. 19	Sunday	CONVOCATION SUNDAY.
Mar. 20	Monday	SPRING MEETING of the *University Congregation.*
Mar. 21	Tuesday	SPRING CONVOCATION of the *University.* ANNUAL ASSIGNMENT of *Fellowships.*
Mar. 22	Wednesday	QUARTERLY EXAMINATIONS.
Mar. 23	Thursday	
Mar. 24	Friday	
Mar. 24	Friday	SECOND TERM of Winter Quarter ends.
Mar. 25–31		QUARTERLY RECESS.
April 1	Saturday	FIRST TERM of Spring Quarter begins. MATRICULATION and REGISTRATION of incoming students.
May 12	Friday	FIRST TERM of Spring Quarter ends.
May 13	Saturday	SECOND TERM of Spring Quarter begins.
May 30	Tuesday	MEMORIAL DAY: a holiday.
May 31	Wednesday	REGISTRATION of resident students for the *Summer* and *Autumn* Quarters.
June 1	Thursday	
June 2	Friday	
June 3	Saturday	
June 14	Wednesday	QUARTERLY EXAMINATIONS.
June 15	Thursday	
June 16	Friday	

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1904/05 - 1907/08

THE GRADUATE SCHOOLS.

OFFICERS OF ADMINISTRATION.

The President of the University, WILLIAM RAINEY HARPER, *Haskell Museum*, First Floor, Room 10.

The University Recorder, ALONZO KETCHAM PARKER, *Haskell Museum*, First Floor, Room 11.

The University Chaplain, CHARLES RICHMOND HENDERSON, *Cobb Lecture Hall*, First Floor.

The University Registrar, THOMAS WAKEFIELD GOODSPEED, *The Press Building*, First Floor.

The Secretary to the President, FRANCIS WAYLAND SHEPARDSON, *Haskell Museum*, First Floor, Room 10.

The Dean of the Faculties of Arts, Literature, and Science, HARRY PRATT JUDSON, *Haskell Museum*, First Floor, Room 14.

The Dean of the Graduate School of Arts and Literature, ALBION WOODBURY SMALL, First Floor, Room 14.

The Dean of the Ogden (Graduate) School of Science, ROLLIN D. SALISBURY, *Haskell Museum*, First Floor, Room 14.

The Dean of Women, MARION TALBOT, *Cobb Lecture Hall*, First Floor, Room 9.

20 Nov. 29 Mason

THE FACULTY.*

Members of the Faculties of Arts, Literature, and Science giving instruction in the Graduate Schools are the following:

WILLIAM RAINEY HARPER, PH.D., D.D., LL.D., *President of the University; Professor and Head of the Department of Semitic Languages and Literatures.*

HARRY PRATT JUDSON, A.M., LL.D., *Professor of Comparative Politics and Diplomacy, and Head of the Department of Political Science; Dean of the Faculties of Arts, Literature, and Science.*

THOMAS CHROWDER CHAMBERLIN, PH.D., LL.D., *Professor and Head of the Department of Geology; Director of Museums.*

CHARLES OTIS WHITMAN, PH.D., LL.D., *Professor and Head of the Department of Zoölogy; Curator of the Zoölogical Museum* (Woods Hole).

RICHARD GREEN MOULTON, PH.D., *Professor of Literary Theory and Interpretation, and Head of the Department of General Literature.*

JOHN MERLE COULTER, PH.D., *Professor and Head of the Department of Botany.*

WILLIAM GARDNER HALE, A.B., LL.D., *Professor and Head of the Department of Latin.*

CHARLES RICHMOND HENDERSON, D.D., PH.D., *Professor of Sociology in the Divinity School; University Chaplain.*

SHERBURNE WESLEY BURNHAM, A.M., *Professor of Practical Astronomy and Astronomer in the Yerkes Observatory.*

CHARLES CHANDLER, A.M., *Professor of Latin.*

EMIL GUSTAV HIRSCH, A.M., LL.D., LIT.D., D.D., *Professor of Rabbinical Literature and Philosophy.*

SAMUEL WENDELL WILLISTON, M.D., PH.D., *Professor and Head of the Department of Palæontology.*

JAMES LAURENCE LAUGHLIN, PH.D., *Professor and Head of the Department of Political Economy.*

ALBERT ABRAHAM MICHELSON, PH.D., SC.D., LL.D., *Professor and Head of the Department of Physics.*

NATHANIEL BUTLER, A.M., D.D., *Professor of Education; Director of Co-operating Work.*

FRANK BIGELOW TARBELL, PH.D., *Professor of Classical Archæology.*

ERNEST DEWITT BURTON, D.D., *Professor and Head of the Department of Biblical and Patristic Greek.*

ALBION WOODBURY SMALL, PH.D., LL.D., *Professor and Head of the Department of Sociology; Dean of the Graduate School of Arts and Literature.*

OSKAR BOLZA, PH.D., *Professor of Mathematics.*

JOSEPH PAXSON IDDINGS, PH.B., *Professor of Petrology.*

CHARLES REID BARNES, PH.D., *Professor of Plant Physiology; Examiner for Colleges.*

* The names in each group, with the exception of the names of the President of the University and the Dean of the Faculties, are arranged in the order of collegiate seniority.

PAUL SHOREY, Ph.D., *Professor and Head of the Department of Greek.*
BENJAMIN TERRY, Ph.D., *Professor of Mediæval and English History.*
WILLIAM DARNALL MacCLINTOCK, A.M., *Professor of English Literature; Dean of University College.*
JOHN DEWEY, Ph.D., *Professor and Head of the Department of Philosophy; Director of the School of Education.*
HENRY HERBERT DONALDSON, Ph.D., *Professor and Head of the Department of Neurology.*
IRA MAURICE PRICE, D.B., Ph.D., *Professor of the Semitic Languages and Literatures.*
JOHN FRANKLIN JAMESON, Ph.D., LL.D., *Professor and Head of the Department of History.*
GEORGE STEPHEN GOODSPEED, Ph.D., *Professor of Comparative Religion and Ancient History.*
GEORGE NEAL STEWART, A.M., D.Sc., M.D., D.P.H., *Professor and Head of the Department of Physiology.*
ROLLIN D. SALISBURY, A.M., *Professor of Geographic Geology and Head of the Department of Geography; Dean of the Ogden (Graduate) School of Science.*
STARR WILLARD CUTTING, Ph.D., *Professor of German Literature.*
ERNST FREUND, J.U.D., Ph.D., *Professor of Jurisprudence and Public Law.*
FRANK FROST ABBOTT, Ph.D., *Professor of Latin.*
JOHN MATTHEWS MANLY, Ph.D., *Professor and Head of the Department of English.*
ELIAKIM HASTINGS MOORE, Ph.D., *Professor and Head of the Department of Mathematics.*
ROBERT FRANCIS HARPER, Ph.D., *Professor of the Semitic Languages and Literatures.*
LUDVIG HEKTOEN, M.D., *Professor and Head of the Department of Pathology and Bacteriology.*
JOHN ULRIC NEF, Ph.D., *Professor and Head of the Department of Chemistry.*
RICHARD ALEXANDER FULLERTON PENROSE, Jr., Ph.D., *Professor of Economic Geology.*
SHAILER MATHEWS, D.D., *Professor of New Testament History and Interpretation in the Divinity School; Junior Dean of the Divinity School.*
JAMES HAYDEN TUFTS, Ph.D., *Professor of Philosophy; Dean of the Senior Colleges.*
JAMES RICHARD JEWETT, Ph.D., *Professor of the Arabic Language and Literature.*
EDWIN BRANT FROST, A.M., *Professor of Astrophysics, and Astrophysicist in the Yerkes Observatory.*
GEORGE EDGAR VINCENT, Ph.D., *Professor of Sociology; Dean of the Junior Colleges.*
CARL DARLING BUCK, Ph.D., *Professor and Head of the Department of Sanskrit and Indo-European Comparative Philology.*
ALEXANDER SMITH, Ph.D., *Professor and Director of General and Physical Chemistry; Dean in the Junior Colleges.*
EDWARD EVERETT HALE, Jr., Ph.D., *Professor of English, Union College* (Summer Quarter, 1904).
WILL D. HOWE, Ph.D., *Professor of English, Butler College* (Summer Quarter, 1904).
ALEXANDER R. HOHLFELD, Ph.D., *Professor of German, University of Wisconsin* (Summer Quarter, 1904).
JAMES H. VAN SICKLE, A.M., *Superintendent of Schools, Baltimore, Md.* (Summer Quarter, 1904).
EDWARD EMERSON BARNARD, A.M., Sc.D., *Professor of Practical Astronomy, and Astronomer in the Yerkes Observatory.*
GEORGE LINCOLN HENDRICKSON, A.B., L.H.D., *Professor of Latin.*
EDWARD CAPPS, Ph.D., *Professor of Greek.*
CHARLES ZUEBLIN, Ph.B., D.B., *Professor of Sociology.*
GEORGE ELLERY HALE, S.B., Sc.D., *Professor of Astrophysics; Director of the Yerkes Observatory.*
LEWELLYS FRANKLIN BARKER, M.B., *Professor and Head of the Department of Anatomy.*
JAMES ROWLAND ANGELL, A.M., *Professor of Psychology and Director of the Psychological Laboratory.*
ELLA FLAGG YOUNG, Ph.D., *Professor of Education.*

PAUL MILYOUKOV, A.M., *Professorial Lecturer on Russian Institutions, on the* Crane *Foundation.*
GEORGE FOOTE MOORE, D.D., LL.D. (*Professor in the Harvard Divinity School*), *Haskell Professorial Lecturer in Comparative Religion.*
WALTER STANLEY HAINES, A.M., M.D., *Professorial Lecturer on Toxicology.*
GRAHAM TAYLOR, D.D., *Professorial Lecturer in Sociology.*
GEORGE ELLIOTT HOWARD, Ph.D., *Professorial Lecturer in History* (Summer Quarter, 1904).
A. D. COLE, *Professor of Physics, Ohio State University* (Summer Quarter, 1904).
WILLIAM NORMAN GUTHRIE, A.M., *Lecturer in Literature* (Summer Quarter, 1904).

FRANCIS ADELBERT BLACKBURN, Ph.D., *Associate Professor of the English Language.*
HEINRICH MASCHKE, Ph.D., *Associate Professor of Mathematics.*
OLIVER JOSEPH THATCHER, Ph.D., *Associate Professor of Mediæval and English History.*
FRANK JUSTUS MILLER, Ph.D., *Associate Professor of Latin; Examiner for Secondary Schools.*
MYRA REYNOLDS, Ph.D., *Associate Professor of English Literature; Head of Nancy Foster Hall.*
KARL PIETSCH, Ph.D., *Associate Professor of Romance Philology.*
CLARENCE FASSETT CASTLE, Ph.D., *Associate Professor of Greek on the* Edward Olson *Foundation; Dean in the Junior Colleges.*
MARION TALBOT, A.M., *Associate Professor of Sanitary Science; Dean of Women and Head of Green House.*
FREDERICK STARR, Ph.D., *Associate Professor of Anthropology; Curator of the Anthropological Section of Walker Museum.*
FRANCIS WAYLAND SHEPARDSON, Ph.D., *Associate Professor of American History; Secretary to the President.*
GEORGE HERBERT MEAD, A.B., *Associate Professor of Philosophy.*
WILLIAM ISAAC THOMAS, Ph.D., *Associate Professor of Sociology; Superintendent of Departmental Libraries.*
EDWIN ERLE SPARKS, A.M., Ph.D., *Associate Professor of American History.*
JULIUS STIEGLITZ, Ph.D., *Associate Professor of Chemistry.*
CHARLES BENEDICT DAVENPORT, Ph.D., *Associate Professor of Zoölogy and Embryology; Assistant Curator of the Zoölogical Museum.*
CAMILLO von KLENZE, Ph.D., *Associate Professor of German Literature.*
WILLIAM BISHOP OWEN, Ph.D., *Associate Professor of Greek; Dean of the University High School.*
THOMAS ATKINSON JENKINS, Ph.D., *Associate Professor of French Philology.*
EDWIN OAKES JORDAN, Ph.D., *Associate Professor of Bacteriology.*
JAMES HENRY BREASTED, Ph.D., *Associate Professor of Egyptology and Semitic Languages; Director of Haskell Oriental Museum.*
ROBERT HERRICK, A.B., *Associate Professor of English.*
FRANK RATTRAY LILLIE, Ph.D., *Associate Professor of Embryology; Assistant Curator of the Zoölogical Museum.*
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ALBERT HARRIS TOLMAN, Ph.D., *Assistant Professor of English Literature.*
HANS M. SCHMIDT-WARTENBERG, P.D., *Assistant Professor of Germanic Philosophy.*
PAUL OSKAR KERN, Ph.D., *Assistant Professor of Germanic Philology.*
THORSTEIN B. VEBLEN, Ph.D., *Assistant Professor of Political Economy.*
ALICE PELOUBET NORTON, A.M., *Assistant Professor of Household Administration.*
HERBERT ELLSWORTH SLAUGHT, Ph.D., *Assistant Professor of Collegiate Mathematics.*
GEORGE CARTER HOWLAND, A.M., *Assistant Professor of Italian Philology.*
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JOHN PAUL GOODE, Ph.D., *Assistant Professor of Geography.*
WILLIAM HILL, A.M., *Assistant Professor of Political Economy; Dean in University College.*
CHARLES RIBORG MANN, Ph.D., *Assistant Professor of Physics.*
ADDISON WEBSTER MOORE, Ph.D., *Assistant Professor of Philosophy.*
ELIAS POTTER LYON, Ph.D., *Assistant Professor of Physiology; Dean in Medical Work* (Woods Hole).
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JOHN CUMMINGS, Ph.D., *Assistant Professor of Political Economy.*

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BRADLEY MOORE DAVIS, Ph.D., *Assistant Professor of Morphology* (Woods Hole).
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GEORGE HERBERT LOCKE, A.M., *Assistant Professor of Education.*
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HARRY GIDEON WELLS, A.M., M.D., *Assistant Professor of Pathology.*
HERBERT J. DAVENPORT, *Assistant Professor of Political Economy; Head of North House.*
THEODORE C. BURGESS, Ph.D., *Assistant Professor of Greek and Latin, Bradley Polytechnic Institute* (Summer Quarter, 1904).

FRANCIS ASBURY WOOD, Ph.D., *Instructor in Germanic Philology.*
MARTIN SCHÜTZE, Ph.D., *Instructor in German Literature.*
ERNEST JEAN DUBEDOUT, Dr. ès Lettres, *Instructor in French Literature.*
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CHARLES MANNING CHILD, Ph.D., *Instructor in Zoölogy.*
EDGAR JOHNSON GOODSPEED, Ph.D., *Instructor in Biblical and Patristic Greek; Assistant Director of Haskell Oriental Museum.*
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LAUDER WILLIAM JONES, Ph.D., *Instructor in Analytical Chemistry.*
GEORGE ELMER SHAMBAUGH, M.D., *Instructor in Anatomy of Ear, Nose, and Throat.*
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GEORGE BREED ZUG, A.B., *Instructor in the History of Art.*
JOSEPH PARKER WARREN, Ph.D., *Instructor in History.*
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HOWARD TAYLOR RICKETTS, S.B., M.D., *Instructor in Pathology.*
DEAN DeWITT LEWIS, A.B., M.D., *Instructor in Anatomy.*
PRESTON KYES, A.M., M.D., *Instructor in Anatomy.*
BROWN PUSEY, M.D., *Instructor in the Pathology of the Eye.*
JOHN CHARLES HESSLER, Ph.D., *Instructor in Chemistry.*
HENRY GORDON GALE, Ph.D., *Instructor in Physics.*
JAMES WEBER LINN, A.B., *Instructor in English.*
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NOTT WILLIAM FLINT, A.B., *Instructor in English.*
CHARLES EDWARD MERRIAM, Ph.D., *Instructor in Political Science.*
SOPHONISBA PRESTON BRECKINRIDGE, Ph.D., *Instructor in Household Administration; Assistant Dean of Women.*
NORMAN MacLEOD HARRIS, M.B., *Instructor in Bacteriology.*
WILLIAM LAWRENCE TOWER, S.B.. *Instructor in Embryology.*

JOHN M. P. SMITH, Ph.D., *Associate in the Semitic Languages and Literatures.*
CHARLES HUGH NEILSON, Ph.D., *Associate in Physiology.*
BASIL COLEMAN HYATT HARVEY, A.B., M.B., *Associate in Anatomy.*

LISI CECILIA CIPRIANI, Ph.D., *Associate in French and Comparative Literature.*
JOHN BROADUS WATSON, Ph.D., *Associate in Experimental Psychology.*
WILLIS B. HOLMES, Ph.D., *Associate in Chemistry.*
BENSON AMBROSE COHOE, A.B., M.B., *Associate in Anatomy.*
JOHN GORDON WILSON, A.M., M.B., *Associate in Anatomy.*
SAUL EPSTEEN, Ph.D., *Associate in Mathematics.*
BURTON JESSE SIMPSON, S.B., M.D., *Associate in Anatomy.*
JOHN JACOB MEYER, Ph.D., *Associate in Sanskrit and Indo-European Comparative Philology.*

SHINKISHI HATAI, Ph.D., *Assistant in Neurology.*
BURTON EDWARD LIVINGSTON, Ph.D., *Assistant in Botanical Physiology.*
AUGUSTUS RAYMOND HATTON, Ph.B., *Assistant in Political Science.*
EDITH E. BARNARD, *Assistant in Quantitative Analysis.*
CLIFTON DURANT HOWE, A.B., S.M., *Assistant in Ecology.*
IRA HARRIS DERBY, S.B., *Assistant in Quantitative Analysis.*
KATASHI TAKAHASHI, *Technical Assistant in Neurology.*

WILLIAM JESSE GOAD LAND, S.B., *Assistant in Botany* (Summer Quarter, 1904).
HARLAN HARLAND BARROWS, *Laboratory Assistant in Geology* (Summer Quarter, 1904).
LESLIE HENRY WOOD, A.M., *Assistant in Geology* (Summer Quarter, 1904).
ROLLIN THOMAS CHAMBERLIN, S.B., *Assistant in Geology* (Summer Quarter, 1904).

ELEANOR PRESCOTT HAMMOND, Ph.D., *Docent in English Language and Literature.*
GHEN-ICHIRO YOSHIOKA, Ph.B., *Docent in Japanese.*
EDMUND BUCKLEY, Ph.D., *Docent in Comparative Religion* (Summer Quarter, 1904).

APPOINTMENTS TO FELLOWSHIPS FOR 1904–5.

Note—(1) Further appointments will be made at an early date. (2) The name of the appointee is followed by that of the institution at which the Baccalaureate degree was obtained, the department in which the appointment is made, and the state in which the appointee resides. (3) In each case in which more than three appointments are made for one Department, either there is a special fellowship for that Department or the stipend for some appointees is reduced, or there is no stipend.

Abbott, Edith, A.B., University of Nebraska, Political Economy, Nebraska.

Abbott, George Alonzo, S.B., A.M., DePauw University, Chemistry, Indiana.

Allin, Frederick Madison, A.B., University of California, Physiology, California.

Allison, William Henry, A.B., D.B., Harvard University, Church History, Massachusetts.

Barber, John Raymond, A.B., University of Oregon, Pathology, Oregon.

Baumgartner, William Jacob, A.B., Kansas State University, Zoölogy, Kansas.

Beck, William Porter, S.B., Denison University, Physics, Ohio.

Beifus, Joseph, A.B., University of Chicago, Germanic, Illinois.

Bestor, Arthur Eugene, A.B., University of Chicago, History, Wisconsin.

Bondurant, Bernard Camillus, A.B., Hampden-Sidney College, Latin, Virginia.

Bramhall, Frederick Dennison, Ph.B., University of Chicago, Political Science, Illinois.

Branson, Edwin Bayer, A.B., University of Kansas, Paleontology, Kansas.

Bretz, Julian Pleasant, A.B., William Jewell College, History, Missouri.

Burwell, Leslie Moulthrop, A.B., Harvard University, Biblical Greek, Illinois.

Calhoun, Alexander, A.M., Queen's University, Greek, Canada.

Cardiff, Ira Detrich, S.B., Knox College, Botany, Illinois.

Carr, Harvey, S.B., University of Colorado, Philosophy, Indiana.

Carr, Wilbert Lester, A.B., Drake University, Latin, Iowa.

Castro, Matilde, A.B., University of Chicago, Philosophy, Illinois.

Chamberlin, Rollin Thomas, S.B., University of Chicago, Geology, Illinois.

Clark, Wayland Blair, S.B., S.M., Denison University, Chemistry, Ohio.

Clifford, Oliver C., A.B., Oberlin College, Physics, China.

Covington, David A., A.B., Wake Forest College, Greek, North Carolina.

Crocker, William, A.B., A.M., University of Illinois, Botany, Illinois.

Day, Edna Daisy, S.B., S.M., University of Michigan, Household Administration, Illinois.

Day, Dudley Watson, S.B., University of Chicago, Bacteriology, Iowa.

Evans, William Lloyd, S.B., Ohio State University Chemistry, Ohio.

Ferguson, William Duncan, A.B., D.B., Oberlin College, Biblical Greek, Canada.

Frazer, Andrew Little, A.B., Brown University, Church History, New Jersey.

Godbey, Allen Howard, A.M., Morrison College, Semitic, Missouri.

Goettsch, Charles, A.B., University of Chicago, Germanic, Iowa.

Goettsch, Emil, S.B., University of Chicago, Anatomy, Iowa.

Goettsch, Henry Max, S.B., University of Iowa, Chemistry, Illinois.

Griffin, Frank L., S.B., University of Chicago, Astronomy, Kansas.

Hamburger, Walter Wile, S.B., University of Chicago, Physiology, Illinois.

Hamilton, Ira Calvert, A.B., University of Indiana, Political Science, Indiana.

Hilpert, Willis Stose, S.B., University of Chicago, Chemistry, Illinois.

Howard, Earl Dean, Ph.B., University of Chicago, Political Economy, Illinois.

Jenkins, Perry W., A.B., Miami University, Astronomy, Iowa.

Jones, Lynds, A.B., S.M., Oberlin College, Zoölogy.

Kay, George Frederick, A.B., University of Toronto, Geology, Canada.

Kauffman, Calvin Henry, A.B., Harvard University, Botany, New York.

Kenyon, John Samuel, A.B., Hiram College, English, Ohio.

Kirk, Edwin Garvey, S.B., University of Chicago, Anatomy, Ohio.

Krehbiel, Edward Benjamin, A.B., University of Kansas, History, Kansas.

Lauck, William Jett, A.B., Washington and Lee University, Political Economy, West Virginia.

Lennes, Nels Johan, S.B., University of Chicago, Mathematics, Minnesota.

Manwaring, Wilfred Hamilton, S.B., University of Michigan, Pathology, Minnesota.

Matson, George Charlton, S.B., A.M., Doane College, Geology, Illinois.

McGee, Clyde, A.B., University of Michigan, Church History, Michigan.

Melton, George Lane, Ph.B., University of Chicago, History, Illinois.

Mercier, Louis Joseph, A.B., St. Ignatius College, Romance, Illinois.

Moore, Robert Lee, S.B., University of Texas, Mathematics, Texas.

Nelson, Roy Batchelder, A.B., University of Chicago, Sanskrit, Wisconsin.

Newman, Horatio Hackett, A.B., McMaster University, Zoölogy, Canada.

Peaks, Mary Bradford, A.B., University of Chicago, Latin, Illinois.

Pease, Samuel James, A.B., Northwestern University, Greek, Illinois.

Posey, Chessley Justin, S.B., University of Illinois, Geography, Illinois.

Ranson, Stephen Walter, S.B., University of Chicago, Neurology, Minnesota.

Reed, Albert Granberry, A.B., Vanderbilt University, English, Texas.

Rees, Kelly, A.B., Leland Stanford University, Greek Tennessee.

Schlesinger, Hermann Irving, S.B., University of Chicago, Chemistry, Wisconsin.

Sharman, Abbie Mary Lyon, A.B., University of Wooster, English, Illinois.

Sharman, Henry Burton, S.B., University of Toronto, Biblical Greek, Canada.

Shaw, Arthur Wynne, A.B., Yale University, Philosophy, Illinois.

Shepard, John Frederick, S.B., St. Lawrence University, Philosophy, Michigan.

Sills, Milton, A.B., University of Chicago, Philosophy, Illinois.

Simpson, Edwin, A.B., Acadia College, Systematic Theology, Nova Scotia.

Smith, Warren Dupré, S.B., University of Wisconsin, Geology, California.

Sprott, Robert James, A.B., University of Toronto, Romance, Canada.

Stephens, Thomas Calderwood, A.B., Kansas State University, Zoölogy, Kansas.

Stillhamer, Arthur Grant, S.B., Illinois Wesleyan University, Physics, Illinois.

Taylor, George Coffin, A.B., South Carolina College, English, South Carolina.

Toffteen, Olaf Alfred, A.B., Higher State College, Sweden, Semitic, Minnesota.

Towle, Elizabeth, A.B., Bryn Mawr College, Physiology, New York.

Ullman, Berthold Louis, A.B., University of California, Latin, Illinois.

Weidensall, Clara Jean, A.B., Vassar College, Philosophy, Nebraska.

Wilson, Albert Sherwood, A.B., D.B., University of Toronto, Systematic Theology, Canada.

Wilson, Norman Richard, A.B., University of Toronto, Mathematics, Canada.

Wilson, Thomas McMaster Tweed, A.B., Cornell University, Semitic, Pennsylvania.

Woods, Erville Bartlett, A.B., Beloit College, Sociology, Wisconsin.

Yoshioka, Ghen Ichiro, Ph.B., Northwestern University, Sanskrit, Japan.

INTRODUCTORY.

I. DEPARTMENTS OF INSTRUCTION.

For purposes of instruction the University is organized into departments. The following departments are included within the Faculties of Arts, Literature, and Science, and give instruction in the Graduate Schools.

I. Philosophy.
II. Political Economy.
III. Political Science.
IV. History.
V. The History of Art.
VI. Sociology and Anthropology.
VI*A*. Household Administration.
VII. Comparative Religion.
VIII. The Semitic Languages and Literatures.
IX. Biblical and Patristic Greek.
X. Sanskrit and Indo-European Comparative Philology.
XI. The Greek Language and Literature.
XII. The Latin Language and Literature.
XIII. The Romance Languages and Literatures.
XIV. The Germanic Languages and Literatures.
XV. The English Language and Literature, and Rhetoric.
XVI. General Literature.
XVII. Mathematics.
XVIII. Astronomy and Astrophysics.
XIX. Physics.
XX. Chemistry.
XXI. Geology.
XXI*A*. Geography.
XXII. Zoölogy.
XXIII. Anatomy.
XXIV. Physiology (including Physiological Chemistry and Pharmacology).
XXV. Neurology.
XXVI. Palæontology.
XXVII. Botany.
XXVIII. Pathology and Bacteriology.

THE UNIVERSITY YEAR.

The University year is divided into four Quarters of about twelve weeks each. The Autumn, Winter, and Spring Quarters begin on the first day of October, January, and April, respectively, and the Summer Quarter on the day next following the last day of the Spring Quarter. The Summer Quarter is divided into two equal Terms.

At the close of the Autumn and Winter Quarters there is a recess of about a week. At the close of the Spring Quarter there is no recess. At the close of the Summer Quarter there is a recess of about four weeks.

Students are admitted at the opening of any one of the four Quarters, and at the opening of the second Term of the Summer Quarter.

Degrees are conferred at the close of each Quarter at the Quarterly Convocation.

II. THE GRADUATE SCHOOLS.

ORGANIZATION AND ADMISSION.

Two Graduate Schools are now organized: the Graduate School of Arts and Literature, and the Ogden (Graduate) School of Science.

Admission to the Graduate Schools of the University will be granted:

1) To those who have been graduated from the Colleges of the University of Chicago.
2) To those who are graduates of other institutions of good standing, and who hold Bachelor's degrees corresponding to those conferred by the University.

Applications for admission, in the case of students not graduates of the University, should be accompanied by testimonials as to character and scholarship. Whenever possible, such testimonials should take the form of diplomas, written or printed theses, or satisfactory evidence in some other form of the student's fitness for admission.

It should be noted that admission to a Graduate School does not necessarily admit to candidacy for a higher degree.

COURSES OF INSTRUCTION.

A course of instruction which meets daily (*i. e.*, four or five days a week) throughout the Quarter is called a *Major*. A course which meets daily throughout a Term is called a *Minor*. A seminar usually counts as a *Major*.

Courses announced for the Senior Colleges do not usually count directly towards a higher degree. In some cases they are included among the announcement in this CIRCULAR OF INFORMATION because they may be desirable prerequisites of other courses.

DEGREES.

Graduate study may lead to a Master's or to a Doctor's degree under the conditions specified below.

1. *The Master's Degree.* Three degrees are conferred, viz.: *Master of Arts, Master of Science, and Master of Philosophy.*

   1) *Candidacy.* Any member of the Graduate Schools who has been in attendance one Quarter or more, and whose undergraduate course is equivalent to that required for a Bachelor's degree in the University of Chicago,* may, on recommendation by the department or departments in which he wishes to work, be enrolled by vote of the Faculties of the Graduate Schools, as a candidate for a Master's degree.

   2) *Requirements.* Students thus accepted as candidates will be given a Master's degree on fulfilment of the following requirements:

      a) At least three Quarters' residence at the University.

      b) A satisfactory examination on the work taken for the degree.

      c) Either of the following sets of particular requirements:

      I. *The Specialist Degree.* (1) At least seven Majors of resident graduate work, all falling in one department (or nine Majors, six in one department and three in another); (2) the presentation of a satisfactory dissertation on a subject approved by the department; (3) The delivery of five printed or typewritten copies of this dissertation to the University Librarian.

      II. *The Non-Specialist Degree.* Nine Majors of resident graduate work distributed among three departments, three in each, and not more than six in any one group of departments. The particular courses to be offered are accepted in advance by the heads of the departments concerned. No dissertation is required.

      The following are the recognized groups:

      1) Philosophy and Education.
      2) Political Economy, Political Science, History, Sociology.
      3) The History of Art, Sanskrit and Indo-European Comparative Philology, Greek, Latin.
      4) Comparative Religion, Semitic Languages and Literatures, Biblical and Patristic Greek.
      5) Romance, Germanic, English, Literature in English.
      6) Mathematics, Astronomy, Physics, Chemistry.
      7) Geology, Geography.
      8) Zoölogy, Anatomy, Physiology, Neurology, Palæontology, Botany, Pathology and Bacteriology.

2. *The Degree of Doctor of Philosophy.*

   1) *Candidacy.* Any member of the Graduate Schools who has been in attendance one quarter or more, whose undergraduate course is equivalent to that required for a Bachelor's degree in the University of Chicago,* whose thesis subject has been accepted by the principal department, and who has a reading knowledge of French and German (which must be certified by the heads of those departments), may, on recommendation by the principal department in which he wishes to work, be enrolled, by vote of the Faculties of the Graduate Schools, as a candidate for the Doctor's degree.

   2) *Requirements.* Students thus accepted as candidates will be given the Doctor's degree,

*In case the candidate did not obtain his Bachelor's degree at the University of Chicago, he will present to the Dean on blanks furnished for the purpose a detailed statement of his undergraduate work. The Dean cannot always report upon these statements during the opening week of the Quarter.

on the fulfilment of the following requirements:

a) At least three years of resident work at the University, in pursuance of an accepted course of study. The course in question must include one principal and either one or two secondary subjects, each acceptable to the head of the department concerned.

b) A satisfactory final examination upon the work done in preparation for the degree.

c) The presentation of a satisfactory printed thesis upon a subject which has been approved by the head of the department in which the principal part of the candidate's work has been done.

d) A good command of literary expression and such knowledge of subjects considered fundamental as may be prescribed by the several departments.

e) Candidates for the degree of Doctor of Philosophy may not take more than two thirds of their work in one department, and may not take work which is to count toward the degree, in more than three departments.

3) *Work done in other Universities.* Graduate work done in another university will be accepted as equivalent to resident work in the University of Chicago, provided that the institution in which the work was done is of high standing and sufficient evidence is furnished that the particular work was satisfactorily performed.

Work done in other universities will not ordinarily count for more than one and one half years of resident work in the University; but the degree of Doctor of Philosophy may, in exceptional cases, be granted after one year of residence.

FELLOWSHIPS AND SCHOLARSHIPS.

1. *The University Fellowships.* The University appropriates annually the amount of twenty thousand dollars ($20,000) for Fellowships in the Graduate Schools. These Fellowships are awarded by the Trustees upon the recommendation of the President and the nomination of a particular department to graduate students who desire to specialize. Each year about seventy Fellowships are assigned, ranging in individual value from $120, or the tuition fees of a student for three Quarters, to $520.

2. *Applications for Fellowships.* Applications for Fellowships should be addressed to the President of the University, *and should be in his hands on or before March 1.*

3. *Appointments to Fellowships.*
   1) *Date.* The annual assignment of Fellowships is usually made about the first of April. A Fellowship is available for any three of the four Quarters of the year beginning in June following the date of appointment.
   2) *Attainments Required.* The candidate must have attained proficiency in some department. In general he should have spent at least one year in resident study after receiving his Bachelor's degree. In making the appointment special weight is given to theses indicating the candidate's ability to conduct original investigation.

4. *Special Fellowships.* In addition to the regular University Fellowships mentioned above, there are special Fellowships offered by individuals. These vary somewhat in number and amount from year to year. At present they are as follows:
   1) The *William A. and Fanny C. Talcott Fellowships and Scholarships.* In 1896 William A. Talcott, of Rockford, Ill., endowed four Fellowships and Scholarships, two of which bear his name and two the name of his widow, Fanny C. Talcott. They are intended primarily for the benefit of graduates of the Rockford College, but in the absence of such beneficiaries may be assigned to others. They pay the tuition fees of those appointed to them.
   2) The *Bucknell Fellowship*, yielding $400, offered by Mr. Charles Miller, Franklin, Pa., is open to graduates of Bucknell University. The appointment to this Fellowship is made by the faculty of Bucknell University.
   3) The *Joseph B. Loewenthal Fellowship in Chemistry* endowed by Mr. Berthold Loewenthal of Chicago as a memorial of his son Joseph B. Loewenthal. It yields about $420 to the incumbent annually appointed, and is awarded on the nomination of the Department of Chemistry and the recommendation of the President of the University.

5. *Graduate Scholarships.* The Scholarships available for students in the Graduate Schools are as follows:

1) *Scholarships for Excellence in the Work of the Senior Colleges.* The University offers twenty Scholarships for excellence in the work of the Senior Colleges. The Scholarships are assigned annually, in the Spring Quarter, on the nomination of the Board of the Senior Colleges. Each department of the University, with the approval of the Committee on Scholarships, has the privilege of naming a student who is for that year the honor student of the Senior Colleges in that department, and to this student there is given a Graduate Scholarship yielding in each case a sum equal to the University tuition fees for three Quarters ($120) provided the student continues his studies in the Graduate Schools.

2) *The William A. and Fanny C. Talcott Fellowships and Scholarships.* See under Fellowships.

3) *Affiliation Scholarships.* Under the conditions of affiliation with Kalamazoo College, Des Moines College, Butler College, John B. Stetson University, and Illinois College, the three students who stand highest in scholarship and general excellence in each graduating class are awarded Scholarships covering the University tuition fees for three Quarters ($120). Under this arrangement the University offers:

Three Scholarships to graduates of Kalamazoo College.

Three Scholarships to graduates of Des Moines College.

Three Scholarships to graduates of Butler College.

Three Scholarships to graduates of John B. Stetson University.

Three Scholarships to graduates of Illinois College.

4) *Scholarships for Teachers in Affiliated Schools.* Under the conditions of affiliation teachers in the various Affiliated Schools of the University are assigned Scholarships covering the tuition fee. The conditions under which these Scholarships may be obtained will be mailed on application.

5) *Scholarships for Public Speaking.*—Three Scholarships, each yielding the amount of forty dollars ($40) or the tuition fee for a Quarter, are awarded the winners in the preliminary contests in public speaking. In case the winner in a preliminary contest has previously secured a scholarship in this way in the Graduate Schools, the award is made to the second in rank.

6) *Scholarships for Officers.*—Forty Scholarships, each yielding the tuition fees for three Quarters ($120), are assigned annually to members of the faculties, or wives of members, who may desire to take courses of instruction in the University.

INCIDENTAL PRIVILEGES.

1. *Physical Culture.* Work in the department of Physical Culture is open to students of the Graduate Schools.

2. *Chapel-Assembly.* A weekly chapel-assembly for the students of the graduate schools is held on Thursdays, at 10:30 A.M. Attendance is optional.

III. LIBRARIES, LABORATORIES, AND MUSEUMS.

THE LIBRARIES.

The general library is for the use of students in all departments of the University. Students who have matriculated and paid their library fee may take at one time three volumes from the General Library. These may be kept two weeks, and at the end of that time, if desired, may be renewed for two weeks.

The approximate estimate of the books at present in the library is 372,816.

All the Branch and Departmental libraries are catalogued and classified. Most of the collections in the General Library are now permanently arranged.

The General Library is open on every week day from 8:30 A.M. to 5:30 P.M. The Library receives 1,287 current periodical publications, including the transactions and proceedings of learned societies.

Many of the Departmental Libraries are open in the evening.

THE LABORATORIES.

The Kent Chemical Laboratory and the Ryerson Physical Laboratory contain rooms for special research, small laboratories for work of investigation, large laboratories for general instruction, lecture-rooms, class-rooms, library, museum, and offices.

The Hull Biological Laboratories is a group of four buildings devoted to the study of the Anatomical, Botanical, Physiological, and Zoölogical Sciences. Medical instruction is given in three of these laboratories.

THE MUSEUMS.

The Walker Museum contains the collections of fossils of the Department of Geology, and various mineralogical, anthropological, palæontologic, and geological collections, donated to or deposited in the Museum. It contains also the lecture-rooms and libraries of the Department of Geology and of the Department of Anthropology.

The Haskell Oriental Museum contains a series of large and well-equipped rooms for the installation and exhibition of museum material. The Biblical, the Comparative Religion, the Assyrian, and the Egyptian collections occupy the second floor. A large assembly room and administration offices are on the first floor and a library on the third floor.

THE OBSERVATORY.

The Yerkes Astronomical Observatory is situated near Williams Bay, Wisconsin. Its principal instrument is a refracting telescope of 40 inches aperture.

IV. GENERAL INFORMATION.

ROUTINE OF ENTRANCE.

Application should be addressed to THE UNIVERSITY OF CHICAGO, Chicago, Ill. When presenting himself for admission to the University, the student should bring his diploma, and present it, with any letters of introduction, at the office of the Deans of the Graduate Schools. Detailed directions will be furnished at the Deans' office as to the mode of matriculation and registration for courses of introduction desired.

FEES FOR MATRICULATION, TUITION, ETC.

1. *Examination or School Inspection Fee.*—A fee of $5.00 is payable by students entering the Junior Colleges either by examination or from co-operating schools.
2. *Matriculation Fee.* The Matriculation fee is $5.00, and is required of every student on entrance to the University.
3. *Tuition Fee.*
   a) The Tuition fee is $40.00 per Quarter (including the library and incidental fee, $5.00) for regular work (three Majors or their equivalent); there is no reduction to those taking only two Majors.
   b) A reduction is made in case of students taking only one Major (or equivalent), one-half the full tuition fee being charged.
   c) *All tuition and laboratory fees are due and payable on or before the* FIRST *day of* EACH QUARTER. *All fees are payable to the Registrar, Cobb Lecture Hall, Room A7.*
4. *Laboratory Fee.*

   Students in Chemistry pay a laboratory fee of $5.00 for a Major course, and $2.50 for a Minor course. Students in Biology pay $2.50 for a Major course, and $1.25 for a Minor course, except for courses in Gross Anatomy, in which the fee is $5.00 for a Major course.

   Ten dollars ($10.00) is the maximum charge for Laboratory work in any one department (M. and DMj. courses will be charged in proportion).

   In addition to the regular Laboratory fee, students in Chemistry will procure a coupon ticket, entitling them to $5.00 worth of Laboratory material. Students in Biology will procure a coupon ticket, entitling them to $2.50 worth of Laboratory material. Unused portions will be redeemed.
5. *Graduation Fee.*

   The graduation fee, including diploma, is $10.00.

ROOMS, BOARD, AND GENERAL EXPENSES.

Nine dormitories have thus far been erected in the Quadrangles. Two of these are reserved for the students of the Divinity School, and four are for women. A University House is organized in each dormitory; each House has a Head, appointed by the President of the University, and a House Committee, elected by the members; also a House Counselor, selected from the Faculties of the University by the members of the House. The membership of the House is determined by election, and each House is self-governing under the general control of the University Council.

The cost of rooms in the dormitories is from $14.00 to $75.00 per Quarter of twelve weeks. This includes heat, light, and care. Each hall for women has separate dining hall and parlors. The cost of table board in these halls is $42.00 a Quarter.

All applications for rooms, or for information concerning rooms and board within or without the Quadrangles, should be made to the Registrar.

For further details, see special circulars as to rooms and board, which will be sent on application.

The following table will furnish an estimate of the annual expenses for thirty-six weeks of a student in the University, residing within the Quadrangles:

	LOWEST	AVERAGE	LIBERAL
University bill, tuition	$120 00	$120 00	$120 00
Rent and care of room	42 00	105 00	225 00
Board	100 00	126 00	225 00
Laundry	15 00	25 00	35 00
Text-books and stationery	10 00	20 00	50 00
	$287 00	$396 00	$655 00

It is believed that students who find it necessary to reduce expenses below the lowest of these estimates can do so. Rooms outside the Quadrangles, furnished, with heat, light, and care, may be obtained at from $1.00 a week upwards, the $1.00 rate being easily secured where two students room together. Many places offer room and board from $4.50 upwards. The University Commons, Hutchinson Hall, one of the Tower group of buildings recently completed, offers to students a boarding table at $3.50 a week, and café service *à la carte.* There are student clubs which secure board at cost, the rate during the past year ranging from $2.75 to $3.50 a week. A list of approved boarding places outside the Quadrangles is kept on file at the Information Office, Cobb Lecture Hall, and information regarding them may there be obtained.

V. THE UNIVERSITY EXTENSION DIVISION.

Work for non-resident students is offered by the University through the University Extension Division.

The *Lecture-study Department* offers courses of systematic lecture-studies by members of the University Faculty, in communities where any committee or organization will undertake the responsibility of local management.

The *Correspondence-study Department* offers to individual students systematic courses of study in secondary and college subjects under the direct supervision and guidance of a University instructor. For further information consult the *Circulars of Information of the University Extension Division.*

VI. UNIVERSITY COLLEGE.

University College is the college conducted by the University of Chicago in the center of the city. It was originally designed chiefly for the benefit of active teachers of Chicago and vicinity. This service the college still performs though its courses are open to all persons upon conditions similar to those in the colleges and the graduate schools on the quadrangles. The courses are given at the Fine Arts Building, 203 Michigan avenue, in the afternoon, evening, and on Saturday. The courses offered are not only for under graduate students, but also for graduate students who will receive credit for their work in like manner as undergraduate students.

THE SCHOOLS AND COLLEGES OF ARTS, LITERATURE AND SCIENCE.

I. THE DEPARTMENT OF PHILOSOPHY.

OFFICERS OF INSTRUCTION.

JOHN DEWEY, Ph.D., *Professor and Head of the Department of Philosophy.*
JAMES HAYDEN TUFTS, Ph.D., *Professor of Philosophy.*
ELLA FLAGG YOUNG, Ph.D., *Professor of Education.*
NATHANIEL BUTLER, A.M., D.D., *Professor of Education.*
JAMES ROWLAND ANGELL, A.M., *Professor of Psychology and Director of the Psychological Laboratory.*
GEORGE HERBERT MEAD, A.B., *Associate Professor of Philosophy.*
ADDISON WEBSTER MOORE, Ph.D., *Assistant Professor of Philosophy.*
GEORGE HERBERT LOCKE, A.M., *Assistant Professor of Education.*
WILLARD CLARK GORE, Ph.D., *Assistant Professor of Psychology.*
EDWARD SCRIBNER AMES, Ph.D., *Instructor in Philosophy.*
JOHN BROADUS WATSON, Ph.D., *Associate in Experimental Psychology.*

FELLOWS.

1904–1905.

In Philosophy.

HARVEY CARR, S.B.
CLARA JEAN WEIDENSALL, A.B.
MATILDE CASTRO, A.B.
ARTHUR WYNNE SHAW, A.B.
JOHN FREDERICK SHEPARD, S.B.
MILTON SILLS, A.B.

INTRODUCTORY.

The primary aim of the department is to give training in the methods of philosophic inquiry, reflection, and statement, and thus to equip competent teachers and investigators in the various branches. The department aims to train specialists, but only upon the basis of an adequate general knowledge. Candidates for the Doctor's degree are required to select for special attention, and to make some particular investigation in one of the four fields of logic and metaphysics, history of philosophy, psychology, ethics; but this specialization presupposes sufficient knowledge of the other branches to enable one to direct, and if necessary to undertake, teaching in them.

In the second place it is believed that, in the existing state of life, philosophy has much of value for those who do not intend to specialize in it. It is doubtful if there ever was a time when philosophy lay so close to the various sciences, social, historical, and biological, on one side, and to the requirements of practical life on the other, as at present. The department desires in the organization and arrangement of courses to make due recognition of this fact.

Students in other departments who are expecting to take philosophy as a subsidiary subject for the Master's or Doctor's degree should see the Head of the Department at once after coming into University residence, and arrange for this work in advance. Nine Majors are required. The equivalents of the elementary courses in psychology, ethics, and logic are required as antecedents. Work will be assigned according as the principal work is in literary, scientific, or historical and social lines.

A student presenting himself for the Doctor's degree with philosophy as the chief subject will be required to have the equivalents of Courses 4–6 in the history of philosophy, and at least three courses in psy-

chology; the latter may be either experimental or general, or a suitable combination of the two. He may further specialize, as already indicated, in the history of philosophy, psychology, ethics, and logic and metaphysics. Experimental psychology may be offered as a principal or as a subsidiary subject. In the latter case, the student should be prepared in the equivalents of Courses 10–14, in one or more, at least, of the theoretical courses, and as a rule should also take some work in physiology or neurology.

In case the antecedent work in elementary psychology, logic and ethics, and the history of philosophy does not come up to the proper standard, the candidate for an advanced degree will be required to take the undergraduate work in these subjects. As a rule students coming from institutions where advanced work in philosophy is not provided will find it advantageous to do some review work here.

The Psychological Laboratory occupies a building of its own at 5704 Ellis avenue. The extensive collection of apparatus is primarily assigned to afford thorough training in accepted methods of investigation. New apparatus required for research work is promptly supplied.

The library of the department contains the more important works on logic, psychology, the history of philosophy, æsthetics, ethics, and sets of the philosophical journals.

It is the primary aim of the work in education to train competent specialists for the broad and scientific treatment of educational problems. The courses provided for this end fall in the main under three heads: (1) Courses in psychology and related work; (2) Courses in educational theory; (3) Courses in the best methods of teaching the various branches. Only courses of the second class are separately printed here. Courses under (1) and (3) will be found under their respective departments.

It is believed that any profitable study of educational theory and method presupposes a thorough grounding in psychological principles; that a scientific treatment of educational problems demands as a prerequisite a familiarity with the methods and results of the modern study of the development of intelligence; that an appreciation of the ultimate ends of education requires that discipline in the estimate of values and ideals which is afforded by ethics; and that a broad outlook is best gained by an acquaintance with the history of human thought. It is expected, therefore, that the courses in educational theory be preceded or accompanied by the Introductory Courses in psychology and ethics, and that advanced work in this department be accompanied by further work in the lines indicated above. In this connection attention is also called to the related courses in biology, physiology, neurology, and social science.

The instructors in the department edit *The School Review*, a journal of secondary education, and the *Elementary School Teacher*, a journal of elementary education, each issued ten times a year, and published by the University of Chicago Press; subscription price, $1.50 per year.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

Courses in the History of Philosophy.

Note.—Courses 4-6 form a continuous course given each year designed especially for Senior College students. Any one of the three may be taken by itself. Courses 24-28 are intended for graduate students who wish to cover the field in a more thorough manner. The courses in Ancient and in Modern Philosophy are given in alternate years, and the work may be begun in either year.

4, 5. **History of Philosophy.**—(For the Senior Colleges.) These courses are designed (1) as a survey of the history of thought, considered in its relations to the sciences, to literature, and to social and political conditions; and (2) as an introduction to philosophy through a more careful study of some of the most important systems. Windelband's *History of Philosophy*, with lectures, and readings from Plato, Aristotle, Descartes, Locke, Berkeley, Hume, and Kant.

2Mj. Autumn Quarter; 11:00.
Winter Quarter; 11:00.
Assistant Professor Moore.

6. **Movements of Thought in the Eighteenth and Nineteenth Centuries.**—This is a non-technical course, for Senior College and graduate students. It forms the conclusion of Course 5, but may be taken by those who have had Courses 1 and 2. Mj. Spring Quarter; 11:00.
Associate Professor Mead.

24. **Aristotle's Metaphysics.**—The discussion will relate Aristotle's metaphysics to Greek scientific thought both natural and social, and will aim

to indicate in what sense it is an ultimate expression of the Greek theory of reality. This will involve some discussion of the metaphysics as a medium for mediæval thought. The course will appropriately follow Course 4. Mj.

ASSOCIATE PROFESSOR MEAD.

[Not to be given in 1904–5.]

25. **Renaissance Philosophy.**—Hobbes Descartes, Spinoza, and Leibnitz. For Graduate students.

Mj. Spring Quarter; 11:00.

DR. AMES.

[Not to be given in 1904–5.]

28. **Kantian and Post-Kantian Idealism.**—For Graduate students. Mj. Summer Quarter; 8:00.

ASSOCIATE PROFESSOR MEAD.

COURSES IN LOGIC AND METAPHYSICS.

30. **Introduction to Philosophy.**—Fundamental problems and standpoints in philosophy. Senior College and Graduate students.

Prerequisite: *Introductory Psychology and Ethics.*

M. Second Term, Summer Quarter; 9:00.

ASSISTANT PROFESSOR MOORE.

31. **The Philosophy of Science.**—An historical survey of the physical and biological sciences will be followed by a psychological analysis of their leading concepts. For Senior College and Graduate students. Mj.

ASSOCIATE PROFESSOR MEAD.

[Not to be given in 1904–5.]

32. **The Classification and Interrelations of the Sciences.**—A discussion of modern attempts in scientific methodology. For Senior College and Graduate students.

Mj. Autumn Quarter; 9:30.

ASSOCIATE PROFESSOR MEAD.

33, 34, 35. **The Theory of Logic.**—The course as a whole is designed to advance a critical and constructive theory of the logical functions: judgment conception, and inference. They will be discussed in relation to one another, and the relation of thought to experience and reality will be considered. Texts: Lotze, Mill, and *Studies in Logical Theory.*

3Mj. Autumn and Winter Quarters; 8:30.

PROFESSOR DEWEY.

Spring Quarter.

ASSISTANT PROFESSOR MOORE.

[Not to be given in 1904–5.]

36. **Seminar.**—Origins of theory of evolution in the eighteenth century and early nineteenth century antecedents of the theories of evolution entertained by Spencer and Darwin will be examined. The purpose will also be to indicate a method to be followed in historical research in philosophy

Mj. Winter Quarter; Tues. 4:00 to 6:00

PROFESSOR DEWEY.

39. **Development of Logical Judgment from Locke through Kant.**—For Senior College and Graduate students. Mj. Spring Quarter; 2:00.

ASSISTANT PROFESSOR MOORE.

[Not to be given in 1904–5.]

40. **Departmental Seminar.**—The topic for 1903–4 was *Perception*, considered from the historical, psychological, and metaphysical points of view. Fortnightly meetings. Open only to Fellows and regularly enrolled candidates for the Doctor's degree. *No credit.*

THE INSTRUCTORS OF THE DEPARTMENT.

COURSES IN ETHICS.

41. **Logic of Ethics.**—An account of the fundamental moral ideas, such as the good, standard, ideal, obligation, freedom of responsibility, in connection with the problem of judgment, and the relation of judgment to conduct. The special aim will be to show the relation between moral and scientific categories.

For Graduate students.

Mj. Autumn Quarter; 8:30.

PROFESSOR DEWEY.

[Not to be given in 1904–5.]

42. **Social Ethics.**—This course will discuss the ethical problems involved in social organization and progress, especially the adjustment to each other of the ethics of community life and individual freedom. For Graduate students.

Mj. Winter Quarter; 8:30.

PROFESSOR DEWEY.

43. **The Psychology of Ethics.**—This course will discuss the part played by the psychic processes of the individual such as impulse, desire, effort, deliberation and choice in the constitution of moral conduct. For Graduate students.

Mj. Spring Quarter; 8:30.
PROFESSOR DEWEY.

45. **The Evolution of Morality.**—This course will give a general review of the typical facts in the growth of moral customs and ideals. Primitive human morality will be discussed, considering three or four types of tribal life and the ethic development of institutions and the individu in these types. The method pursued is that social psychology. For graduate students.

Mj. Autumn Quarter; 12:(
PROFESSOR TUFTS.

47. **Recent Ethical Theory.**—The important proble and tendencies of recent ethical theory will ı ceive comparative treatment. Lectures, discu sions, and papers.

Mj. Spring Quarter; 12:(
PROFESSOR TUFTS.

[Not to be given in 1904–5.]

COURSES IN PSYCHOLOGY.

9. **Outline of Experimental Psychology.**—Lectures and class demonstrations illustrating the scope and technique of experimental methods in psychology. For Senior College and Graduate students. M.

Prerequisite: *Introductory Psychology.*

[Not to be given in 1904–5.]

10, 11, 12. **Experimental Psychology. Training Course.**—This course is designed to afford students preliminary training for independent research and for teaching this branch. It is distinctly a laboratory course. Students may enter this course at the beginning of any of the three quarters. The work is, however, closely connected, and the department strongly recommends adherence to the regular sequence, as indicated in the course numbers.

3Mj. Autumn, Winter, and Spring Quarters.
Lectures: 2:00–3:00.
Laboratory work: 2:00–4:00.
DR. WATSON.

NOTE.—Lectures and Laboratory work occur on different days.

Course 10: Will be given to the study of visual and auditory sensations, introduced by a general presentation of psychological methods.

Autumn Quarter.
DR. WATSON.

Course 11: Will be devoted to the study of cutaneous, kinæsthetic, gustatory, and olfactory sensations. Winter Quarter.
DR. WATSON.

Course 12: Will consider the application of experi-

... laboratory work. The more familiar forms of procedure for quantitative study of the psychical processes will be discussed and illustrated. Mj. Spring Quarter; 8:30–10:30.
DR. WATSON.

Prerequisite: *1Mj. in Experimental Psychology.*

13, 14, 15. **Experimental Psychology.** Advanced Course. This course is primarily intended for purposes of original investigation. It may, however, be employed for securing technical drill in advanced methods not touched upon in the training courses. It presupposes a course like the foregoing, or extended practice in other laboratory work, biological or physiological. Selected problems will be assigned to individual students.

In Courses 10–12 and 13–15 there will be no attempt to do work on the strictly physiological side of psychology—in the structure and functions of the nervous system. Unusual facilities for such work are afforded in the Departments of Neurology and Physiology, and the attention of all students of psychology is called to these courses, described more fully in the special programmes of those departments. Relevant work in these lines will, with the consent and co-operation of the respective departments, be credited in candidacy for the Doctor's de-

gree in philosophy when the principal subject is experimental psychology.

3Mj. Autumn, Winter, and Spring Quarters.
PROFESSOR ANGELL AND DR. WATSON.

16. **Psychology of Space Perception.**—This course will undertake a critical presentation of the modern literature of visual and tactual space perception, with especial reference to its more empirical features. The problems of auditory space will be considered if time permits. For advanced Graduate students.
Mj. Winter Quarter; 9:30.
PROFESSOR ANGELL.

17. **Advanced Psychology.**—A discussion of selected problems and theories, with a view to defining the tendencies at work in the development of contemporary psychology. For Graduate students. Mj. Autumn Quarter; 9:30.
PROFESSOR ANGELL.

17A. **Advanced Psychology.**—Discussion of the leading contemporary psychological schools of thought as to their respective standpoints and methods, will occupy the First Term. The Second Term will take up a discussion of the image and of space perception.
Mj. Summer Quarter; 9:00–10:00.
ASSOCIATE PROFESSOR MEAD.

The work may be elected either Term separately as a Minor.

18. **Experimental Comparative Psychology.**—Work in the laboratory, and conferences. Senior College and Graduate students. Hours to be arranged. Open after consultation with instructor.
Mj. Winter Quarter.
DR. WATSON.

19. **Contemporary Social Psychology.**—The development of social psychology from individual psychology will be traced, and its justification and methods discussed.
Mj. Winter Quarter.
ASSOCIATE PROFESSOR MEAD.

[Not to be given in 1904–5.]

20. **Theoretical Comparative Psychology.**—A critical review of points of view and methods; and a discussion of the evolution of animal intelligence from the standpoint of movement in relation to space adjustments. The course may profitably be preceded by the experimental Course 18. Mj. Spring Quarter; 9:30.
ASSOCIATE PROFESSOR MEAD.

63. **Genetic Psychology.**—A consideration of problems, methods, and data in the psychological growth of children and youth. For Senior College and Graduate students.
Mj. Spring Quarter; 2:00.
ASSISTANT PROFESSOR GORE.

83. **Individual Psychology.**—Research and observation regarding types of psychological temperament, capacity, etc., with special reference to methods of study and classification of children.
ASSISTANT PROFESSOR GORE.

COURSES IN ÆSTHETICS.

7. **Æsthetics.**—An introduction to the history and theory of æsthetics. The two aspects of the æsthetic field, viz.: appreciation, or criticism, and artistic production will be analyzed, and their leading categories studied with reference both to their psychological origin, and to their historic relations in the development of art. For the Senior Colleges.
Mj. Spring Quarter; 8:30.
PROFESSOR TUFTS.

Prerequisite: *Introductory Psychology.*

COURSES IN EDUCATION.*

For the Senior Colleges.

60. **Psychology Applied to Education..**—The discussion of psychological problems which have reference to education.
Mj. First Term, Summer Quarter; 8:00.
ASSISTANT PROFESSOR GORE.
Second Term; 8:00.
ASSISTANT PROFESSOR MOORE.

61. **The History of Educational Theories and Practice from Ancient Times to the Eighteenth Century.** Mj. Autumn Quarter.
ASSISTANT PROFESSOR LOCKE.

62. **Educational Thought and Progress During the 18th and 19th Centuries.**
Mj. Winter Quarter.
ASSISTANT PROFESSOR LOCKE.

*For additional Courses in Education see *Announcements* of the College of Education.

65. **Psychology Applied to Education.**
Mj. Autumn Quarter; 9:30.
PROFESSOR YOUNG.

66. **History of the Development of Educational Theory.**
Mj. Spring Quarter; 8:30.
PROFESSOR YOUNG.
Prerequisite: *Course 65.*

67. **Ethics Applied to Education.**
Mj. Autumn Quarter; 8:30.
PROFESSOR YOUNG.
Prerequisite: *Elementary Psychology and Ethics.*
[Not to be given in 1904–5.]

For the Senior Colleges and the Graduate Schools.

63. **Genetic Psychology.** — Problems, methods, and data in the psychological growth of children and youth. Mj. Spring Quarter; 12:00.
ASSISTANT PROFESSOR GORE.
Prerequisite: *Elementary Psychology.*

64. **Mind and Body.**—A discussion of their relationship with reference to educational topics.
Mj. Spring Quarter.
ASSISTANT PROFESSOR GORE.
Prerequisite: *At least one course in Psychology beyond the introductory course.*
[Not to be given in 1904–5.]

68. **Method in Education.** Mj. Winter Quarter.
PROFESSOR YOUNG.
[Not to be given in 1904–5.]

69. **Psychology Applied to Teaching and Management in the High School and Upper Grammar Grades.** Mj. Winter Quarter; 9:30.
PROFESSOR YOUNG.

70. **Problems of Secondary Education in America.**
First Term, Summer Quarter; 9:00.
ASSISTANT PROFESSOR LOCKE.

71. **Topics in Secondary Education.**
Mj. Spring Quarter.
Also as M. Second Term, Summer Quarter.
PROFESSOR BUTLER.

72. **National School Systems:** England, Germany, and the United States. Mj. Spring Quarter.
Also as M. Second Term, Summer Quarter.
PROFESSOR BUTLER.

73. **The Place of Parochial Schools in American Education.**—History and present problems.
Mj. Spring Quarter.
ASSISTANT PROFESSOR LOCKE.

74. **Administration of Public Education in the United States, with Special Reference to State Control.**
Mj. Autumn Quarter.
ASSISTANT PROFESSOR LOCKE.

75. **Administration of Public Education in the United States with Special Reference to the City.**—Typical cities will be studied in detail.
Mj. Spring Quarter.
ASSISTANT PROFESSOR LOCKE.

75A. **The School and the Community.** — A series of conferences dealing with possible correlations of social forces in an American community.
M. First Term, Summer Quarter; Mon., 7:30–9:30 P.M. ASSISTANT PROFESSOR LOCKE.

76. **Psychologic Basis of Education.**
Mj. Winter Quarter; 9:30.
PROFESSOR YOUNG.

77. **Supervision and Management of Schools.**
Mj. Autumn Quarter; 11:00.
PROFESSOR YOUNG.

78. **Ethical Basis of Education.**
Mj. Spring Quarter; 9:30.
PROFESSOR YOUNG.

79. **Preparation of Education Texts.**
Mj. Autumn Quarter; 11:00.
PROFESSOR YOUNG.
[Not to be given in 1904–5.]

80. **Educational Classics.**— *Republic* of Plato; *Oratory* by Quintilian, and selections from Renaissance Literature. Mj. Winter Quarter; 9:30.
PROFESSOR YOUNG.
[Not to be given in 1904–5.]

82. **Seminar: Special Aspects of Philosophy of Education.**—Some of the chief contributions to the philosophy of education of the last century will be discussed with reference to the respective value of each, and their different philosophic presuppositions; and with a view to determining the nature and problems of the philosophy, as

distinct from the science, of education. Open only to advanced Graduate students after consultation with the Instructor.

Mj. Autumn Quarter; Tues., 4:00–6:00.
PROFESSOR DEWEY.

83. **Individual Psychology.**—Research and observation with respect to types of psychological temperament, capacity, etc.; with special reference to methods of study and classification of children.

92, 93, 94. **Special Research.**—Open only to graduate students who have had experience in teaching.
3Mj. Autumn, Winter and Spring Quarters.
THE INSTRUCTORS IN THE DEPARTMENT.

II. THE DEPARTMENT OF POLITICAL ECONOMY.

OFFICERS OF INSTRUCTION.

JAMES LAURENCE LAUGHLIN, PH.D., *Professor and Head of the Department of Political Economy.*
THORSTEIN B. VEBLEN, PH.D., *Assistant Professor of Political Economy.*
WILLIAM HILL, A.M., *Assistant Professor of Political Economy.*
JOHN CUMMINGS, PH.D., *Assistant Professor of Political Economy.*
HENRY RAND HATFIELD, PH.D., *Assistant Professor of Political Economy.*
HERBERT JOSEPH DAVENPORT, PH.D., *Assistant Professor of Political Economy.*
HUGO RICHARD MEYER, A.B., *Assistant Professor of Political Economy.*
ROBERT MORRIS, A.B., LL.B., *Instructor in Political Economy.*

FELLOWS.

1904-1905.

EDITH ABBOTT, A.B. EARL DEAN HOWARD, PH.B.
WILLIAM JETT LAUCK, A.B.

INTRODUCTORY.

The work of the department is intended to provide, by symmetrically arranged courses of instruction, a complete training in the various branches of economics, beginning with elementary work and passing by degrees to the higher work of investigation. A chief aim of the instruction will be to teach methods of work, to foster a judicial spirit, and to cultivate an attitude of scholarly independence. (1) The student may pass, in the various courses of instruction, over the whole field of economics. (2) When fitted, he will be urged to pursue some special investigation. (3) For the encouragement of research and the training of properly qualified teachers of economics, Fellowships in Political Economy have been founded. (4) To provide a means of communication between investigators and the public, a review, entitled the *Journal of Political Economy*, has been established, to be edited by the officers of instruction in the department; while (5) larger single productions will appear in a series of bound volumes to be known as *Economic Studies of the University of Chicago.*

FELLOWSHIPS.

The Fellowships here offered by the Department of Political Economy are independent of those offered by the allied departments of History, Political Science, or Sociology.

Appointments will be made only on the basis of marked ability in economic studies and of capacity for investigation of a high character. It is a distinct advantage to candidates to have been one year in residence at the University. Candidates for these Fellowships should send to the President of the University a record of their previous work and distinctions, degrees and past courses of study, with copies of their written or printed work in economics. Applications should be sent in not later than March 1 of each year. Appointments will be made during the first week of April.

Fellows are forbidden to give private tuition, and may be called upon for assistance in the work of teaching in the University or for other work; but in no case will they be expected or permitted to devote more than one sixth of their time to such service.

In addition, one Graduate Scholarship, yielding a sum sufficient to cover the annual tuition fees, is awarded to the best student in economics just graduated from the Senior Colleges; and a similar Scholarship is given to the student graduating from the Junior Colleges who passes the best examination at a special test.

CANDIDACY FOR HIGHER DEGREES.

Graduate courses are provided for training and research in subjects such as wages, money, agriculture, socialism, industrial combinations, statistics, demography, finance, and the like. Specialization may be carried on in many parts of the field, under special direction in the Seminar, whereby each student receives a personal appointment for one hour a week. The work is so adjusted as to form an organized scheme leading by regular stages to productive results suitable for publication.

Candidates for the degree of A.M. will not be permitted to offer elementary courses in Political Economy as part of the work during the year's residence. The work of students taking Political Economy as a secondary subject for the degree of A.M., should include (1) the general principles of economics (as contained in Courses 1 and 2, or an equivalent); (2) the history of Political Economy; and (3) the scope and method of Political Economy.

The work of candidates for the degree of Ph.D., taking Political Economy as a secondary subject, should include, in addition to the above requirements for the degree of A.M., on (1) Public Finance, and (2) on some descriptive subject as, *e. g.*, Money, or Tariff, or Railways, etc.; and the examination will be more searching than that for the degree of A.M.

In all cases candidates should consult early with the heads of the departments within which their Major and Minor subjects are taken.

Before being admitted to candidacy for the degree of Doctor of Philosophy, in case Political Economy is chosen as the principal subject, the student must furnish satisfactory evidence to the head of the department that he has been well prepared in the following courses (or their equivalents at other institutions): History of Europe in the Seventeenth and Eighteenth Centuries (History 11); Europe in the Nineteenth Century (History 12); Later Constitutional Period of the United States; the Civil War and the Reconstruction (History 18); Comparative National Government (Political Science 11); Federal Constitutional Law of the United States (Political Science 21); Elements of International Law (Political Science 41); and Introduction to Sociology Sociology 72).

LIBRARY FACILITIES.

In the suite of class-rooms occupied by the department will be found the Economic Library. Its selection has been made with great care, in order to furnish not only the books needed for the work of instruction in the various courses, but especially collections of materials for the study of economic problems. The University Library contains an unusually complete set of United States Documents, beginning with the First Congress. It is believed that ample provision has thus been made for the work of serious research. The work of the students will necessarily be largely carried on in the Economic Library where will also be found the past as well as the current numbers of all the European and American economic journals.

The combined library facilities of Chicago are exceptional. The Public Library, maintained by a large city tax, the Newberry Library, and the Crerar Library, with a fund of several millions of dollars, which has provided books on Political Economy, will enable the student to obtain material needed in the prosecution of detailed investigation.

SPECIAL ADVANTAGES.

For the convenience of those who wish to know the branches of economics in which especial advantages are offered by the department, attention is called to the new facilities afforded for specialization in several directions:

RAILWAYS.

Apart from the fundamental training in the general economic field, a new and exceptional series of advanced courses in the economic side of railways has been provided. It is believed that no such extended and useful courses have ever been offered before on this subject. Beginning with the usual general course on railway transportation, four new courses are presented for advanced students.

LABOR AND CAPITAL.

In view of the pressing importance of questions touching upon the rewards of labor and capital, an exceptional arrangement of courses dealing both with the underlying principles and the practical movements of the day have been prepared upon new and extended lines.

MONEY.

Opportunities for specialization in the field of money and banking have been offered in the past, but new courses have been organized in order to permit a more thorough study in these subjects, both theoretical and practical, than has ever been possible before.

LABORATORY FOR STATISTICAL RESEARCH WORK.

The University has equipped a laboratory for statistical research work in which students are given training in the collection and tabulation of statistical data, as well as in the scientific construction of charts, diagrams, etc. The object of the work is to familiarize students with practical methods employed in government bureaus, municipal, state, and federal, in the United States and in other countries, and in private agencies of sociological and economic investigation. Men are trained to enter the service of such bureaus or agencies of social betterment as statisticians, capable of undertaking any work requiring expert statistical service. The Departments of Political Economy and of Sociology co-operate in the direction of statistical investigations.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. Mj=Major course=a single course for twelve weeks.

GENERAL.

The courses are classified as follows:

Group I, Introductory and Commercial: Courses 1, 2, 3, 4, 5, 6.
Group II, Advanced Business Courses: Courses 7, 8, 9, 10, 11, 12.
Group III, General Economic Field: Courses 20, 21, 22, 23, 24, 25, 26, 27, 29–30, 31–32.
Group IV, Labor and Capital: Courses 40, 41, 42, 43, 44, 45, 46, 47.
Group V, Money and Banking: Courses 50, 51, 52, 53, 54.
Group VI, Railways: Courses 60, 61, 62, 63, 64.
Group VII, Statistics: Courses 70, 71, 72.
Group VIII, Seminars: Courses 80, 81, 82.

Students are advised to begin the study of economics not later than the first year of their entrance into the Senior Colleges; and students of high standing, showing special aptitude for economic study, may properly take the Courses of Group I in the last year of the Junior Colleges.

For admission to the courses of Groups II and III, a prerequisite is the satisfactory completion of Courses 1 and 2 in the department, or an equivalent. Course 1 is not open to students who do not intend to continue the work of Course 2.

GROUP III—GENERAL ECONOMIC FIELD.

20. **History of Political Economy.**—Lectures, Reading, and Reports. This course treats of the development of Political Economy as a systematic body of doctrine; of the formation of economic conceptions and principles, policies, and systems. The subject will be so treated as to show the continuity and systematic character of Political Economy as an intelligent explanation of economic facts. Both the history of topics and doctrines and that of schools and leading writers will be studied. Attention will be given to the commercial theories of the Mercantile System, the Physiocratic School, Adam Smith and his immediate predecessors, the English writers from Adam Smith to J. S. Mill, and the European and American writers of the nineteenth century. Selection will be made of those who have had great influence, and who have made marked contributions to Political Economy. The student will be expected to read prescribed portions of the great authors bearing on cardinal principles. It is hoped that in this way he will learn to see the consistency and relations of economic theories and to use the science as a whole, and not as a mere mass of arbitrary for-

mulæ or dicta. A special feature of the work will be a thorough study of Adam Smith and of Ricardo. Mj. Autumn Quarter; 11:00.
ASSISTANT PROFESSOR VEBLEN.

21. **Scope and Method of Political Economy.**— The course treats of the premises on which the analysis of economic problems proceeds, the range of problems usually taken up for investigation by economists, the methods of procedure adopted in their solution, the character of the solutions sought or arrived at, the relations of Political Economy to the other Moral Sciences, as well as to the influence of the political, social, and industrial situation in determining the scope and aim of economic investigation. Special attention is given to writers on method, as Mill, Cairnes, Keynes, Roscher, Schmoller, Menger. Mj. Winter Quarter; 11:00.
ASSISTANT PROFESSOR VEBLEN.

22. **Finance.** — In this course it is intended to make a comprehensive survey of the whole field of public finance. The treatment is both theoretical and practical, and the method of presentation historical as well as systematic. Most emphasis is placed upon the study of taxation, although public expenditures, public debts, and financial administration are carefully studied.
Mj. Spring Quarter; 8:30.
ASSISTANT PROFESSOR DAVENPORT.

23. **Tariffs, Reciprocity, and Shipping.**— The course of legislation and the development of our commercial policy is followed, and an effort made to indicate the influence of our protective tariffs upon the development of our domestic industries, upon the growth and character of our international trade, and incidentally upon the occurrence of industrial crises and the continuance of industrial prosperity at different periods in our history. Foreign trade policies and schemes for imperial tariff federation are taken up, and especial attention given to the negotiation of reciprocity treaties, as well as to recent attempts which have been made through federal legislation granting subsidies to build up American shipping.
Mj. Spring Quarter; 11:00.
ASSISTANT PROFESSOR CUMMINGS.

24. **Financial History of the United States.** In this course the financial history of the United States is followed from the organization of our national system in 1789 to the close of the Spanish war. The following topics may be mentioned as indicating the scope of the course; the funding and management of the Revolutionary and other war debts; the First and Second United States Banks; the Independent Treasury; the present national banking system; Civil War financiering with especial reference to bond and note issues, and resort to legal tender currency; the demonetization of silver and issue of silver certificates; inflation of the currency and the gold reserve; the currency act of 1900. This study of the course of legislation upon currency, debts, and banking in the United States is based upon first-hand examination of sources, and students are expected to do original research work. Summer Quarter; 8:00.
Mj. Autumn Quarter; 9:30.
ASSISTANT PROFESSOR CUMMINGS.

25. **Economic Factors in Civilization.**—The course is intended to present a genetic account of the modern economic system by a study of its beginnings and the phases of development through which the present situation has been reached. To this end it undertakes a survey of the growth of culture as affected by economic motives and conditions. With this in view, such phenomena as the Teutonic invasion of Europe, the Feudal system, the rise of commerce, the organization of trade and industry, the history of the condition of laborers, processes of production, and changes in consumption, will be treated.
Mj. Spring Quarter; 11:00.
ASSISTANT PROFESSOR VEBLEN.

26. **Problems of American Agriculture.** — Special attention will be given to the extension and changes of the cultivated area of the United States; the methods of farming; the influence of railways and population, and of cheapened transportation; the fall in value of Eastern farm lands; movements of prices of agricultural products; European markets; competition of other countries; intensive farming; diminishing returns; farm mortgages; and the comparison of American with European systems of culture. Summer Quarter; 10:30.
Mj. Winter Quarter; 9:30.
ASSISTANT PROFESSOR HILL.

27. **Colonial Economics.**— The economics of colonial administration, including some account of commercialism, past and present, and of modern

trade theories of imperial federation, trade relations, financial policies, and economic development and dependence of colonies.

A brief historical account of American and foreign experience serves as introduction to a fuller consideration of economic problems involved in modern colonial administration. In the light of this experience study is undertaken of some economic problems which have arisen in Cuba, Porto Rico, Hawaii, and the Philippine Islands. Mj. Spring Quarter; 9:30.

MR. MORRIS.

29, 30. **Oral Debates.** — Selected Economic Topics. Briefs. Debates. Criticism.

2M. Autumn and Winter Quarters; Mon., 3:00–6:00. ASSISTANT PROFESSOR HILL, MR. CHANDLER, AND MR. GORSUCH.

31, 32. **Argumentation.** — To be taken in connection with English 9.

2 hrs. a week. 2M. Autumn and Winter Quarters; Wed., 3:00.

2M. Autumn and Winter Quarters.

MR. CHANDLER.

GROUP IV.—LABOR AND CAPITAL.

40. **Theory of Value.** — After a brief preliminary survey of the discussions prior to Adam Smith, the cost of production-theory as developed at the hands of Ricardo, McCulloch, James Mill, Senior, J. S. Mill, and Cairnes is taken up for detailed study. Then the utility theory of value, as presented by Jevons and Austrian economists, is examined. Finally, the attempts made by such writers as Marshall, Dietzel, Pantaleoni, Clark, Patten, McFarlane, Hobson, etc., to frame a more satisfactory theory of value by combining the analysis of cost and of marginal utility, are reviewed.

Mj. Autumn Quarter; 8:30.

ASSISTANT PROFESSOR DAVENPORT.

41. **Labor and Capital.** — Unsettled problems of distribution. The more abstruse questions of distribution will be considered. No student, therefore, can undertake the work of this course with profit who has not already become familiar with the fundamental principles. The course is open only to those who have passed satisfactorily Course 2, or who can clearly show that they have had an equivalent training. The subjects to be considered will be as follows: The wages-fund and other theories of wages, the interest problem, managers' profits, and allied topics. The discussion will be based upon selected passages of important writers. The study of wages, for example, will include reading from Adam Smith, Ricardo, J. S. Mill, Longe, Thornton, Cairnes, F. A. Walker, Marshall, George, Böhm-Bawerk, Hobson, J. B. Clark, and others. Students will also be expected to discuss recent important contributions to these subjects in current books or journals.

Mj. Winter Quarter; 12:00.

PROFESSOR LAUGHLIN.

43. **Economics of Workingmen.** — Continuing the study of distribution (Course 41), examination is here undertaken of social movements for improving the condition of labor, to determine how far they are consistent with economic teaching, and likely in fact to facilitate or to retard economic betterment of workingmen. Efforts to increase earnings through modification of the wages system itself, resort to legislation, and the purposes and practices of labor organization are discussed, and the effect upon labor efficiency, earning capacity and steadiness of employment, of modern industrial systems; workingmen's insurance; co-operation; profit-sharing; competition of women and children; industrial education; social-settlement work; consumers' leagues. Interest centers about practical efforts for economic amelioration of employment conditions in "sweated" and in other industries. These studies are supplemented by statistical data on the condition of labor in different countries.

Mj. Winter Quarter; 9:30.

ASSISTANT PROFESSOR CUMMINGS.

NOTE.—Although open in certain cases to students of Sociology and others who have had the equivalent of the economic Courses 1 and 2, this course can be taken to best advantage by those only who have already had Course 41.

44. **Socialism.** — A history of the growth of socialistic sentiment and opinion as shown in the socialistic movements of the nineteenth century, and the position occupied by socialistic organizations of the present time. The course is in part historical and descriptive, in part theoretical and critical. The programmes and platforms of various socialistic organizations are examined and compared, and the theories of leading socialists are taken up in detail. Marx is given the chief share of attention, but other theoretical writers, such as Rodbertus,

Kautsky, Bernstein, are also reviewed. The factors which at the present time further or hinder the spread of socialism, and its chances of being carried through or of producing a serious effect upon the institutions of modern countries, are considered.

Mj. Spring Quarter; 9:30.
ASSISTANT PROFESSOR VEBLEN.

45. **Organization of Business Enterprise—Trusts.**—A discussion of the growth of the conditions which have made large business coalitions possible, the motives which have led to their formation, the conditions requisite to their successful operation, the character and extent of the advantages to be derived from them, the drawbacks and dangers which may be involved in their further growth, the chances of governmental guidance or limitation of their formation and of the exercise of their power, the feasible policy and methods that may be pursued in dealing with the trusts. The work of the course is in large part investigation of special subjects, with lectures and assigned reading.

Mj. Autumn Quarter; 9:30.
ASSISTANT PROFESSOR VEBLEN.

46. **Trades Unions and the Labor Movement.**—An historical and comparative study of the trades union movement in the United States and in foreign countries. Negotiation and maintenance of wage-compacts; methods of arbitration, conciliation and adjustment; trades union insurance and provision for the unemployed; incorporation and employees' liability; the precipitation and conduct of strikes; and in general all concrete issues involved in the organization of labor for collective bargaining with employers, with especial reference to the working programs of the more important trades unions at the present time. Summer Quarter; 9:00.

Mj. Spring Quarter; 12:00.
ASSISTANT PROFESSOR CUMMINGS.

47. **The Industrial Revolution and Labor Legislation.**—The social consequences to the wage-earner of the development of the factory system of industry and of industrial development, more particularly during the last half of the 19th century, are taken up historically and descriptively. The social status of the modern wage-earner is contrasted with that of the handicraftsman working under more primitive conditions, and especial attention is given to the development of the modern wages system of remuneration, the historical modification of the labor contract in its legal aspects, and, finally, to the course of labor legislation which has in different countries accompanied industrial reorganization and development. Mj.

ASSISTANT PROFESSOR CUMMINGS.

[Not to be given in 1904–5.]

GROUP V—MONEY AND BANKING.

50. **Money and Practical Economics.**—An examination is first made of the principles of money, whether metallic or paper; then either the subject of metallic or paper money is taken up and studied historically, chiefly in connection with the experience of the United States, as a means of putting the principles into practice. Preliminary training for investigation is combined in this course, with the acquisition of desirable statistical information on practical questions of the day. The student is instructed in the bibliography of the subject, taught how to collect his data, and expected to weigh carefully the evidence on both sides of a mooted question. The work of writing theses is so adjusted that it corresponds to the work of other courses counting for the same number of hours.

Mj. Autumn Quarter; 12:00.
PROFESSOR LAUGHLIN.

51. **The Theory and History of Banking.**—A study is made of the banking systems of leading nations; the relations of the banks to the public; their influence on speculation; and the relative advantages of national banks, state banks, trust companies, and savings banks.

Mj. Winter Quarter; 8:30.
ASSISTANT PROFESSOR HATFIELD.

52. **Advanced Course in Money.**—After having been drilled in the general principles of money (Course 50) the student is given an opportunity to examine the more difficult problems of money and credit. Mj. Spring Quarter.

PROFESSOR LAUGHLIN.

[Not given in 1904–5.]

53. **Practical Banking.**—The internal organization and administration of a bank; the granting of loans; the valuation of an account; bank records; arithmetic of bank operations; mechanical and other time-saving devices.

Mj. Spring Quarter; 8:30.
ASSISTANT PROFESSOR HATFIELD.

54. **Commercial Crises.**—A practical study of the operations of credit in the experiences of this and other countries during the periods of crises.

Mj. Spring Quarter.
Mr. ———.

[Not given in 1904–5.]

Group VI—Railways.

60. **Railway Transportation.**—The economic, financial, and social influences arising from the growth of modern railway transportation, especially as concerns the United States, will be discussed. An account of the means of transportation developed in Europe and America during the early part of this century; the experiments of the states in constructing and operating canals and railways; national, state, and municipal aid to private companies; the rapid and irregular extension of the United States railway system; the failures of 1893; the reorganizations and consolidations since that time, with some attention to railway building in other countries, will form the historical part of the work. A discussion of competition, combination, discrimination, investments, speculation, abuse of fiduciary powers; state legislation and commissions, and the Inter-State Commerce Act, with decisions under it; and the various relations of the state, the public, the investors, the managers and the employés, will form the most important part of the work. This course gives a general view of the subject. Students who wish to continue the work by investigating special problems will have an opportunity to do so under Courses 61 and 62.

Mj. Autumn Quarter; 2:00.
Assistant Professor Hill.

61. **The Regulation of Railway Rates.**—The efforts of the railways of the United States to regulate railway rates through pools, will be compared with the efforts of the several states, and of the federal government, to regulate rates through legislation and through commissions. Typical decisions of pools, of state commissions, and of the Interstate Commerce Commission, will be studied for the purpose of ascertaining: (*a*) whether the decisions of the commissions are founded on a body of principles that may be said to have the character of a science, or, whether they express merely the judgment of administrative officers on questions of fact to which no body of scientific principles can be made to apply; (*b*) whether the past experience warrants the faith that the public regulation of railway rates will leave the railways sufficiently unhampered to develop trade and industry; (*c*) whether regulation by public authority promises to achieve more substantial justice than regulation by pools. The experience of Germany, France, Austria-Hungary, and Russia with the public regulation of railway rates—exercised either by legislation or by public ownership—will be studied with reference to the effect of such regulation upon the elasticity of railway rates, and upon the ability of the railways to develop trade and industry. In this connection will be studied the part played respectively by the railways and by the waterways in the development of Germany, France, Austria-Hungary, and Russia. The study will show why the countries in question are obliged to have recourse to the waterways for services that, in the United States, are rendered by the railways.

Mj. Winter Quarter; 2:00.
Assistant Professor Meyer.

62. **Industrial Activities of the State in Europe.**—This course reviews the efforts made in Great Britain to secure to the public a share in the profits to be made in those so-called public service industries that use the streets: water, gas, electric light, street-railways, and hydraulic power, or compressed air, power transmission. These efforts consist of the imposition of severe restrictions upon franchises, with the alternative of municipal ownership. The experience of Great Britain will be compared with that of the United States, under: (*a*) the practice of practically no restrictions upon the industries in question; (*b*) the Massachusetts practice of regulation by legislation which is enforced and supplemented by state commissions. As for Continental Europe, the course will cover the experience of Prussia, France, and Russia, in attempting to make the railway and public works budgets fit into the state budget. In this connection the inelasticity of state activity in Europe will be compared with the elasticity of private activity in the United States.

Mj. Winter Quarter; 3:00.
Assistant Professor Meyer.

63. **The Industrial Activities of the State in Australasia.**—This course will cover the Australasian experience of the last forty years under a wide extension of the functions of the state. Although Australasia is a comparatively small

country, the experience in question is more significant than might appear at first sight, for it is the experience of a homogeneous, English-speaking people. The course will cover the management of the state-railways; the administration of the public finances; the civil service; and the legislative regulation of the conditions of labor, such as the fixing of minimum wages, and the establishment of compulsory arbitration. Incidentally comparisons will be made with certain conditions and practices in Great Britain and France, for the purpose of showing how the extension of the functions of the state has made the politics of Australasia resemble, in many vital respects, the politics of France, rather than those of Great Britain.

Mj. Spring Quarter; 2:00.
ASSISTANT PROFESSOR MEYER.

64. **American Competition in Europe since 1873.**—This course is a study in economics and politics; it purposes to put before the student information equipping him for the critical consideration of the merits of the question: *Laissez faire vs.* state-intervention. To that end it institutes a series of comparisons between the United States and Europe, especially in the fields of agricultural practice and railway transportation. The course begins with the consideration of the nature of the competition to which the opening of new sources of supply of food products exposed Western Europe, the nature of the adjustments demanded by the situation, and the adjustments actually achieved, under free-trade in Great Britain, and under protection on the Continent. The course then proceeds to contrast the comparative failure to develop the agricultural resources of Eastern Europe (the Danubian Provinces and Russia) and Siberia with the rapid development of the agricultural resources of the interior regions of the United States. In this connection will be studied the comparative efficiency of the railway systems of Europe and the United States, with especial reference to the effect of the public regulation of railway rates, either through state-ownership, or through legislative and administrative intervention. Incidental to the main investigation an array of facts will be presented bearing upon questions of economic theory: the growth of population and the raising of the standard of living; some of the principal factors that have determined the present scale of real wages in the several European countries; some instances of the working of natural selection; and the relative merits of large farms and small farms, or of extensive cultivation and intensive cultivation.

Mj. Spring Quarter; 3:00.
ASSISTANT PROFESSOR MEYER.

GROUP VII – STATISTICS.

70. **Training Course in Statistics.**—The object of this course is to train students in the practical use of statistical methods of investigation. Stress is laid upon work done by students themselves in collecting, tabulating, interpreting, and presenting statistics of different orders. Members of the class are also required to make close critical examinations of various publications of statistical nature with a view to determining the accuracy of data and the legitimacy of inferences drawn. Students engaged in any special work of investigation are encouraged to deal mainly with data relevant to their subjects. To others special topics are assigned. It is hoped that the course may prove useful to all students whose work, in whatever department it may lie, whether in history, sociology, or in other fields of study, is susceptible of statistical treatment.

Courses 70 and 72 will be given in alternate years. Mj. Autumn Quarter; 8:30.
ASSISTANT PROFESSOR CUMMINGS.

71. **Statistics of Wages in the Nineteenth Century.**—In this course effort is made to determine what has been the actual movement of wages during the nineteenth century. An examination is undertaken of the more important statistical investigations of wage-movements which have been made from time to time by economists, government bureaus, or other agencies, in specific industries; the object being to determine the extent to which the wage-earner has in general participated in the benefits of industrial progress and of the increased economic efficiency of labor and capital. The course is intended to be informational and descriptive in character, as well as to give training in the collection and tabulation of statistical data.

Mj. Winter Quarter; 12:00.
ASSISTANT PROFESSOR CUMMINGS.

72. **Demography.**—Statistical methods are illustrated by studies in population data, comprising the construction of actuarial tables; determination of the economic value of populations; economic

aspects of the data of criminality and pauperism; growth and migration of population in the United States as "labor force," including statistics of the negro race. The development of official statistics of population, and the demographic work of government bureaus is taken up historically and critically. The object of the course is to give students training in handling population data as a basis of sociological and economic speculation, and to point out the bearing of such data and their importance in the historical development of economic theories.

ASSISTANT PROFESSOR CUMMINGS.

[Not to be given in 1904–5.]

GROUP VIII—THE SEMINARS.

80, 81. **Economic Seminar.**

2Mj. Autumn and Winter Quarters.

PROFESSOR LAUGHLIN.

III. THE DEPARTMENT OF POLITICAL SCIENCE.

OFFICERS OF INSTRUCTION.

HARRY PRATT JUDSON, A.M., LL.D., *Professor of Comparative Politics and Diplomacy, and Head of the Department of Political Science.*
ERNST FREUND, J.U.D., PH.D., *Professor of Jurisprudence and Public Law.*
CHARLES EDWARD MERRIAM, PH.D. *Instructor in Political Science.*

AUGUSTUS RAYMOND HATTON, PH.B., *Assistant in Political Science.*

FELLOWS.

1904–1905.

FREDERICK DENNISON BRAMHALL, PH.B. IRA CALVERT HAMILTON, A.B.

INTRODUCTORY.

The Department of Political Science covers the theory of the state, the structure and working of government, and international relations. All courses are elective. Students are expected to be familiar with mediæval and modern history, and to have a reading knowledge of French, German, and Latin. Seminar and research courses are given, the results of which are embodied in theses, or are made the basis of more extended works.

The working Library of the department is placed in convenient quarters adjoining the lecture and seminar rooms. Besides books there are 14 periodicals, domestic and foreign. The Library of the Department of Sociology occupies the same room, and the Department Libraries of History and Political Economy are on the same floor.

The Law School Library is in an adjacent building.

Attention is called to a complete set of United States documents, some 5,000 volumes, in the General Library of the University.

The Club of Political Science meets bi-weekly for the discussion of topics of general interest.

COURSES OF INSTRUCTION.

Summer Quarter, 1903—Spring Quarter, 1904.

Mj=Major course=a single course for twelve weeks (a Quarter). M=Minor Course=a single course for six weeks (a Term).

11. **Comparative Politics I: Comparative National Government.**—A comparative study of the constitutions and constitutional law of leading naions, as France, Germany, Switzerland, Great Britain, and the United States.

For the Graduate Schools and the Senior Colleges. PROFESSOR JUDSON.

Prerequisite: *Course 1, or its equivalent.*

[Not to be given in 1904–5.]

12. **Comparative Politics II. Federal Government.**—The principal federations of recent times are studied — the United States, Germany, Switzerland, Canada, Australia, the Confederate States. For the Graduate Schools; open to Seniors with two Majors' credit in Political Science.

Mj. Summer Quarter; 8:00.
Mj. Winter Quarter; 8:30.
PROFESSOR JUDSON.

13. **Comparative Politics III: State Governments in the United States.**—A study in the Constitutions and Constitutional History of the American Commonwealths. For the Senior Colleges.

Mj. Spring Quarter; 8:30.
DR. MERRIAM.

14. **Comparative Politics IV: Municipal Government.** — A comparative study of the modern municipality, American and European, in its legal, constitutional, and administrative aspects. For the Senior Colleges.

Mj. Autumn Quarter; 11:00.
DR. MERRIAM.

15. **Comparative Politics V: The Government of Colonies.**—A study of the political development of the European colonial system in the nineteenth century. European control in the far east, in Africa, and in Oceania. For the Graduate Schools; open to Seniors with two Majors' credit in Political Science.

Mj. Summer Quarter; 9:00.
PROFESSOR JUDSON.

16. **The Development of Civil Liberty.**—A study of restrictions on Government, from Magna Charta to present constitutions. For the Graduate Schools; open to Seniors with four Majors' credit in Political Science.

Mj. Autumn Quarter; 8:30.
PROFESSOR JUDSON.

GOVERNMENTS.

17. **The Government of Great Britain.**— A somewhat detailed study, historical and descriptive, of the British system. For the Graduate Schools; open to Seniors with two Majors' credit in Political Science. PROFESSOR JUDSON.

[Not to be given in 1904–5.]

18. **The Government of France.** — A somewhat detailed study of the French system, as it has developed since the revolution. For the Graduate Schools; open to Seniors with two Majors' credit in Political Science.

PROFESSOR JUDSON.
[Not to be given in 1904–5.]

19. **The Government of Germany.** — A study of the German Empire. DR. MERRIAM.

[Not to be given in 1904–5.]

20. **The Government of Chicago and Illinois.**—A detailed study of the structure and workings of the government of Chicago, Cook County, and the state of Illinois. For the Senior Colleges.

Mj. Winter Quarter; 12:00.
DR. MERRIAM.

POLITICS AND LAW.

21. **Parliamentary Law.**—Lectures and practical applications.

For the Senior Colleges: open to Juniors who have had Political Science I (or its equivalent).

Mj. Winter Quarter; 8:30.
PROFESSOR JUDSON.

22. **Political Parties.**—A study of the organization and methods of action of political parties in the United States. DR. MERRIAM.

[Not to be given in 1904–5.]

23. **Municipal Problems.**—A detailed study of special problems in municipal organization and administration. For the Graduate Schools.

Prerequisites: *Courses 1 and 23 or equivalent.*

[Not to be given in 1904–5.]

25. **History of Political Theory I.**—This course traces the development of systematic political theory from the classical period down to the French Revolution. Mj. Winter Quarter; 11:00.
DR. MERRIAM.

26. **History of Political Theory II.**— This course covers the history of political theory from the French Revolution to the present time.

DR. MERRIAM.
[Not to be given in 1904–5].

27. **The Theory of the State.**— This course presents a systematic study of the principles of political science. For the Graduate School.

[Not to be given in 1904–5.]

31. **Constitutional Law I (State).**—Written constitutions: (*a*) making, revision, and amendment; (*b*) judicial power to declare laws unconstitutional.—Due process of law and the separation

of powers: due process in administrative proceedings; legislative action and due process; due process in judicial proceedings; independence of the judiciary.—Delegation of legislative power. Limitations of legislative power: equality; liberty; property. For the Senior Colleges.

Mj. Autumn Quarter; 2:00.
PROFESSOR FREUND.

Text-book: Thayer, *Cases on Constitutional Law*, Vol. I.

32. **Constitutional Law II (Federal).**—Federal jurisdiction; implied powers; taxation; *ex post facto* and retroactive laws; obligation of contracts; regulation of commerce; money; war. For the Senior Colleges.

½Mj. Winter Quarter; Mj. Spring Quarter; 3:00.
PROFESSOR HALL.

Text-book: Thayer, *Cases on Constitutional Law*, Vols. I (part) and II.

33. **Municipal Corporations.**—General nature; corporate capacity; self-government; creation, annexation, division, dissolution, succession; mode of action, ratification and curative acts; estoppal by recitals; municipal police power; local improvements and services, including special assessments; municipal property, especially public streets; municipal contracts; expenditures and donations; indebtedness; constitutional limit; liability. For the Graduate Schools. Mj. Summer Quarter; 3:00.
PROFESSOR FREUND.

Text-book: Smith, *Cases on Municipal Corporations.*

34. **Public Officers.**—Nature of office; eligibility; appointment and election; acceptance of office; qualifying for office; *de facto* officers; termination of officer's authority by expiration of term; resignation; removal; acceptance of incompatible office, etc.; authority of officer and its execution; liability of officer and the public; special remedies affecting official action. For the Graduate Schools.

½ Mj. Winter Quarter; 11:00.
PROFESSOR MECHEM.

Text-book: Mechem, *Public Officers*, and *Cases.*

35. **Administrative Law.**—Judicial control of administrative acts; administrative regulations; administrative determinations; due process and conclusiveness; powers in aid of execution of laws; enforcement of statutes. For the Graduate Schools. PROFESSOR FREUND.

[Not to be given in 1904–5.]

39. **Roman and Civil Law.**—History of Roman law; doctrines of the Roman law and their development in modern civil law, especially in the civil codes of France and Germany, regarding the following subjects: Subject-matter of property; easements, liens, perpetual leases; usufructus, substitutions, fideicommissa; infancy and guardianship; contractual and quasi contractual relations: causa, fides, dolus; forms of legal acts; personal rights (injuria); tort liability. For the Senior Colleges and the Graduate Schools.

Mj. Spring Quarter; 2:00.
PROFESSOR FREUND.

41. **The Elements of International Law.**—For the Graduate Schools and the Senior Colleges.

Mj. Autumn Quarter; 9:30.
PROFESSOR JUDSON.

Prerequisite: *Course 1 or its equivalent.*

DIPLOMACY.

43. **Recent Diplomatic History of Europe.**—The principal European treaties of the last century are examined, with an especial view to ascertain the main principles of existing international agreements. Especial attention is given to treaties involving colonial relations. For the Graduate Schools and the Senior Colleges.

PROFESSOR JUDSON.

[Not to be given in 1904–5.]

44. **Diplomatic History of the United States.**—The treaty relations of the United States are studied in detail, including an analysis of documents and an examination of methods. For the Graduate Schools and the Senior Colleges.

Mj. Summer Quarter; 10:30.
MR. HATTON.

THE SEMINARS.

51, 52. **Seminar in Politics.**—These courses are intended for advanced students whose principal work is Political Science, and who are prosecuting research in special topics. For the Graduate Schools.

2Mj. Autumn and Winter Quarters.
Tues., 4:00–6:00. PROFESSOR JUDSON.

53. **Seminar in Public Law.**—For the Graduate Schools. Mj. Spring Quarter.
Tues., 4:00–6:00.
PROFESSOR FREUND.

IV. THE DEPARTMENT OF HISTORY.

OFFICERS OF INSTRUCTION.

JOHN FRANKLIN JAMESON, Ph.D., LL.D., *Professor and Head of the Department of History.*
*HERMANN EDUARD von HOLST, Ph.D., *Professor of History.*
BENJAMIN TERRY, Ph.D., *Professor of Mediæval and English History.*
GEORGE STEPHEN GOODSPEED, Ph.D., *Professor of Ancient History.*
OLIVER JOSEPH THATCHER, Ph.D., *Associate Professor of Mediæval and English History.*
FRANCIS WAYLAND SHEPARDSON, Ph.D., *Associate Professor of American History.*
EDWIN ERLE SPARKS, Ph.D., *Associate Professor of American History.*
FERDINAND SCHWILL, Ph.D., *Assistant Professor of Modern History.*
JAMES WESTFALL THOMPSON, Ph.D., *Assistant Professor of European History.*
JOSEPH PARKER WARREN, Ph.D., *Instructor in History.*
FRANCES ADA KNOX, A.B., *Assistant in History.*

GEORGE ELLIOTT HOWARD, Ph.D., *Professorial Lecturer in History* (Summer Quarter, 1904).

FELLOWS.

1904-1905.

ARTHUR EUGENE BESTOR, A.B.
JULIAN PLEASANT BRETZ, A.B.
EDWARD BENJAMIN KREHBIEL, A.B.
GEORGE LANE MELTON, Ph.B.

INTRODUCTORY.

The courses distinctly intended for graduate students relate to the methods of general principles of historical work, or to special portions or aspects of ancient, mediæval or modern European, or American history. They are usually varied from year to year, in regularly recurring series; ample opportunity is thus offered for the attainment of wide knowledge. The seminar courses, which are devoted more especially to the teaching of methods of historical investigation, are intended for the more advanced graduate students. On the other hand those graduate students who as undergradutes have made little study of history are usually advised to take first certain of the Senior College courses, though these do not, unless by special arrangement for extra work, count toward the higher degrees. Accordingly these Senior College courses are included in the following list, having the numbers 4–18, 83, 87, 88.

The candidate for the doctor's degree who presents history as his principal study is expected to pass an examination upon the whole field of history. But the main stress of the examination will fall upon either ancient history, or mediæval history, or modern history (European and American), according as the topic of the thesis lies in one or other of these periods. If history is a secondary subject, the candidate may present as the field of examination any one of these three subdivisions. In all cases, however, the candidate must have completed Courses 4–12 inclusive, or their equivalent; also Courses 1 and 2 of the Department of Political Economy, Courses 11 and 31 of the Department of Political Science, and Course 72 of the Department of Sociology.

The library of the department is growing rapidly in all lines. It is furnished with the leading journals devoted to history. The libraries of the related departments are open to students of history, and are easily accessible. The Chicago Public Library and the Newberry Library add greatly to the opportunities for original investigation.

The Historical Club, composed of teachers and students, holds fortnightly meetings intended to promote interest in historical problems and knowledge of recent progress in history.

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*Deceased.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

II. Senior College Courses.

GROUP A. ANCIENT ORIENTAL AND CLASSICAL HISTORY.

Group A may be taken in the second year of the Junior College instead of the regular Junior College courses in history, under the conditions mentioned on page 231 of *Annual Register*.

4. **The History of Antiquity to the Fall of the Persian Empire.**
Mj. Autumn Quarter; 2:00.
Professor Goodspeed.

5. **The History of Greece to the Death of Alexander.**
Mj. Winter Quarter; 2:00.
Professor Goodspeed.

6. **The History of Rome to the Death of Constantine.**
Mj. Spring Quarter; 2:00.
Professor Goodspeed.

GROUP B. THE HISTORY OF EUROPE IN THE MIDDLE AGES.

7. **The Dark Ages, 350 A. D. to 814 A. D.**
Mj. Autumn Quarter; 12:00.
Associate Professor Thatcher.

8. **The Feudal Age, 814 A. D. to 1250 A. D.**
Mj. Winter Quarter; 12:00.
Associate Professor Thatcher.

9. **The Age of Renaissance, 1250 A. D. to 1500 A. D.**
Mj. Summer Quarter; 9:00. Spring Quarter; 12:00. Associate Professor Thatcher.

GROUP C. THE HISTORY OF EUROPE IN THE MODERN PERIOD.

10. **Europe during the Reformation.**
Mj. Autumn Quarter; 2:00.
Assistant Professor Schwill.

11. **Europe in the Seventeenth and Eighteenth Centuries.** Mj. Winter Quarter; 2:00.
Assistant Professor Schwill.

12. **Europe in the Nineteenth Century.**
Mj. Summer Quarter; 10:30.
Dr. Warren.
Spring Quarter; 9:30.
Dr. Thompson.

GROUP D. THE HISTORY OF ENGLAND.

13. **The Constitutional and Political History of England to the Reign of Edward I.**—Required of students in the preliminary year of the Law School. Mj. Autumn Quarter; 11:00.
Professor Terry.

14. **The Constitutional and Political History of England from the Reign of Edward I. to the Revolution of 1688.**—Required of students in the preliminary year of the Law School.
Mj. Winter Quarter; 11:00.
Professor Terry.

15. **The Constitutional and Political History of England in the Eighteenth and Nineteenth Centuries.** Mj. Spring Quarter; 11:00.
Professor Terry.

15A. Part I. *England in the Eighteenth Century;* Beginning of Party Government.
M. First Term, Summer Quarter; 10:30,
Ppofessor Terry.

GROUP E. THE HISTORY OF THE UNITED STATES.

83. **American History: The Colonial Period.** (1492–1789.) Mj. Summer Quarter; 8:00.
Professor Howard.
Mj. Autumn Quarter; 8:30.
Associate Professor Shepardson.

16. **The United States: The Early Period Under the Constitution.** (1789–1820.)
Mj. Winter Quarter; 8:30.
Associate Professor Shepardson.

17. **The United States: The Middle Period.** (1820–1860.) Mj. Spring Quarter; 8:30.
Associate Professor Shepardson.

18. **The United States: The Later Period.** (1861–1900.) Associate Professor Shepardson.
[Not to be given in 1904–5.]

87. **Constitutional History of the United States to 1815.**—Required of students in the preliminary year of the Law School.
Mj. Winter Quarter; 9:30.
Associate Professor Shepardson.

88. **Constitutional History of the United States since 1815.**—Required of students in the preliminary year of the Law School.
Mj. Spring Quarter; 9:30.
Associate Professor Shepardson.

III. Graduate Courses.

Lecture Courses.

100. **The Elements of Historical Method:** *Criticism and Bibliography.*— In the two subsequent years this will be followed by (101) an introduction to the methods of the sciences usually termed "auxiliary sciences" of history; (102) a course in the history of historiography. Open to Graduate students only.
Mj. Autumn Quarter; 9:30.
Professor Jameson.

1.—The Ancient Period.

Note.—Course 4 (see Group A) should precede any of the Courses 19–23.

19. **History of Israel to the Time of Solomon.**
Mj. Autumn Quarter; 12:00.
Professor Goodspeed.

20. **History of Israel from Solomon to Nehemiah.**
Mj. Spring Quarter; 12:00.
Professor Goodspeed.

2.—The Mediæval Period.

30. **Introduction to the Study of Mediæval and Modern History.**—The interpretation of history, the law of progress, the essential elements of modern civilization, the factors of progress; the city, the imperial idea, the Roman law, the church, feudalism, the nation, representative government, democracy. A graduate course; open to other students who have completed Courses 1 and 2. Autumn Quarter, 1905.
Professor Terry.

31. **The History of Civilization in Europe during the First Five Centuries of the Christian Era.**—The Roman Empire; its political constitution; economic and social organization; causes and progress of decline. Mj. Autumn Quarter, 1906.
Professor Terry.

32. **The Expansion of the Germans over Western Europe.**—Life and institutions of the early Germans; migration and final settlement in Central and Western Europe; importance in further development of civilization.
Mj. Winter Quarter, 1907.
Professor Terry.

33. **The History of Civilization in Europe from the Fifth to the Ninth Century.**—The expansion of the Franks; development of institutions; effect upon Roman institutions; restoration of imperial authority in the West.
Mj. Spring Quarter, 1907.
Professor Terry.

34. **Charles the Great.**—The Frankish system under him. Development of the papacy. General view of civilization in Europe at the opening of the ninth century.
Part I. First Term. M. Summer Quarter; 11:30.
Professor Terry.

35, 36. **The History of Civilization in Europe from the Ninth to the Thirteenth Century.**—The decline of the Carlovingian empire. The establishment of feudalism. The struggle of the empire and the papacy. The rise of the national state in France and England.
2Mj. Winter and Spring Quarters, 1906.
Professor Terry.

40, 41. **The Hundred Years' War.**
Assistant Professor Thompson.
[Not to be given in 1904–5.]

42, 43. **France in the Sixteenth Century, 1494–1559, 1559–1598.** Assistant Professor Thompson.
[Not to be given in 1904–5.]

44, 45. **Mohammed, Mohammedanism, and the Crusades.**
Associate Professor Thatcher.

[Not to be given in 1904–5; see Semitic Languages 194, History of the Crusades, Arabic sources, Spring Quarter, Professor Jewett.]

46. **The History of Commerce during the Middle Ages.** Associate Professor Thatcher.
[Not to be given in 1904–5.]

89. **Introduction to the Study of English History.**—Essential elements of English history; importance of institutions; principles of progress; organization of the state; the awakening of the nation; the struggle for religious and political liberty; the expansion of the empire; the growth of the democracy.
Open to undergraduates who have completed an elementary course in English history.
Mj. Autumn Quarter; 12:00.
Professor Terry.

51. **The History of England.**—The founding of the state. A study of early English institutions.
Mj. Winter Quarter, 12:00.
Professor Terry.

52. **The History of England.**—The development of parliamentary government.
Mj. Spring Quarter, 12:00.
Professor Terry.

53. **The History of England.** — The growth of the democracy. The development of local self-government. The constitution of the British empire.

PROFESSOR TERRY.

[Not to be given in 1904–5.]

54, 55, 56. **Mediæval Official Documents.**—Reading and interpretation of selected documents. Designed especially for those beginning the critical study of history.

3Mj. Autumn, Winter and Spring Quarters; 11:00. ASSOCIATE PROFESSOR THATCHER.

59, 60. **The Origin and History of the Mediæval City,** with especial reference to Italy.

ASSISTANT PROFESSOR SCHWILL.

[Not to be given in 1904–5.]

3.—THE MODERN PERIOD.

61, 62. **France under Henry IV. and Richelieu.**

ASSISTANT PROFESSOR THOMPSON.

[Not to be given in 1904–5.]

63, 64. **England under the Stuarts.**

DR. WARREN.

[Not to be given in 1904–5.]

65, 66. **Prussia** in the Eighteenth and Nineteenth Centuries.

2Mj. Autumn and Winter Quarters: 3:00.

ASSISTANT PROFESSOR SCHWILL.

67, 68. **France under Richelieu and Louis XIV.**

ASSISTANT PROFESSOR THOMPSON.

[Not to be given in 1904–5.]

69, 70. **The History of the French Revolution.**

ASSISTANT PROFESSOR SCHWILL.

[Not to be given in 1904–5.]

72, 73. **England from 1685 to 1714, and from 1714 to 1760.** 2Mj. Autumn and Winter Quarters; 11:00.

DR. WARREN.

74, 75, 76. **France under Louis XIV.**

3Mj. Autumn, Winter and Spring Quarters; 8:30. ASSISTANT PROFESSOR THOMPSON.

77. **The Era of Napoleon.**

ASSISTANT PROFESSOR THOMPSON.

[Not to be given in 1904–5.]

80. **Teachers' Course in American History, 1760–1865.**—Bibliography. Investigation of special topics. Open to teachers of secondary schools who are interested in the teaching of American history. Undergraduate students must take Course 3, or the courses of Group D, as prerequisites. ASSOCIATE PROFESSOR SPARKS.

[Not to be given in 1904–5.]

81. **Territorial Acquisitions of the United States.**

Mj. Winter Quarter; 11:00.

ASSOCIATE PROFESSOR SPARKS.

82. **The Beginnings of the Trans-Alleghanian Commonwealths.** ASSOCIATE PROFESSOR SPARKS.

[Not to be given in 1904–5.]

84. **The History of the United States from the Compromise of 1850 to Secession.**

Mj. Winter Quarter; 12:00.

ASSOCIATE PROFESSOR SPARKS.

85. **United States History: Secession, Civil War, and Reconstruction, 1860 to 1872.**

Mj. Spring Quarter; 12:00.

ASSOCIATE PROFESSOR SPARKS.

86. **History of Internal Improvements in the United States.** Mj. Spring Quarter; 11:00.

ASSOCIATE PROFESSOR SPARKS.

93. **United States History from 1829 to 1850.**

Mj. Autumn Quarter; 9:30.

ASSOCIATE PROFESSOR SHEPARDSON.

94. **United States History, from 1760 to 1789.**

Mj. Summer Quarter; 11:30.

PROFESSOR HOWARD.

95. **United States History, from 1789 to 1815.**

ASSOCIATE PROFESSOR SPARKS.

[Not to be given in 1904–5.]

106. **The History of Land Policy in America.**—The history of the original grants of land, of the land-law, and of the public-land system, treated as a chapter in the social history of the Colonies and of the United States.

Mj. Winter Quarter; 9:30.

PROFESSOR JAMESON.

107. **The History of the Organization of Religion in America.** — The history of religious bodies and their relations to the state, treated as a chapter in American social history.

Mj. Spring Quarter; 9:30.

PROFESSOR JAMESON.

In the subsequent year Courses 106 and 107 will probably be followed by courses in: (104) the history of political parties in the United States, to 1840; (105) the history of slavery in America.

THE SEMINARS.

90, 91, 92. **Early English Institutions.**—Special investigation of topics connected with the development of early English social and political institutions.

3Mj. Autumn, Winter, and Spring Quarters. Mon., 10:30–12:30.

PROFESSOR TERRY.

110. **American Colonial Charters and other Letters Patent.** Autumn Quarter; Mon., 4:00–6:00.

PROFESSOR JAMESON.

111. **The British Administration of the American Colonies.** Winter Quarter; Mon., 4:00–6:00.

PROFESSOR JAMESON.

In the two subsequent years the topics considered will be: (112) the institutions of government in the American colonies; (113) the constitutional history of the American Revolution; (114) the formation and adoption of the Federal Constitution; (115) the constitutional history of the United States from 1789 to 1801; (116) from 1801 to 1815; (117) from 1815 to 1829; (118) the constitutional history of the states, 1775–1830; and (119) the history of the states-rights doctrine, of nullification and secession.

V. THE DEPARTMENT OF THE HISTORY OF ART.

OFFICERS OF INSTRUCTION.

FRANK BIGELOW TARBELL, PH.D., *Professor of Classical Archæology.*
JAMES HENRY BREASTED, PH.D., *Associate Professor of Egyptology and the Semitic Languages.*
GEORGE BREED ZUG, A.B., *Instructor in the History of Art.*

INTRODUCTORY.

The University owns a considerable number of original Egyptian antiquities and of casts of Egyptian and Assyrian bas-reliefs and other objects. It owns also several thousand photographs illustrating all branches of the history of art which are here taught. These are constantly accessible to students. Furthermore, the neighboring Field Columbian Museum has some illustrative material, the Egyptian collection being unusually valuable; and the Art Institute of Chicago, which may be reached in about half an hour from the University, has a large number of casts of sculpture and architecture, reproductions in bronze of most of the bronze statues found in Pompeii and Herculaneum, some original works of Egyptian, Greek, and Roman art, and a gallery of paintings, which includes examples of some of the great masters of the seventeenth century. Much use is made by the department of the opportunities afforded by these public collections.

COURSES OF INSTRUCTION.

Summer Quarter, 1904 — Spring Quarter, 1905.

M=Minor course=a single course for six weeks. Mj=Major course=a single course for twelve weeks.

SENIOR COLLEGE AND GRADUATE COURSES.

1. **Oriental Art from the Earliest Times to the Conquests of Alexander.** Mj.
See VIII; 234.

ASSOCIATE PROFESSOR BREASTED.

2. **Greek Art, to the Age of Alexander.**
Mj. Autumn Quarter; 9:30.
PROFESSOR TARBELL.

3. **Late Greek Art and Roman Art.**
Mj. Winter Quarter; 9:30.
PROFESSOR TARBELL.
Prerequisite: *Course 2.*

4. **Mediæval and Renaissance Sculpture.**
Mj. Autumn Quarter; 2:00.
MR. ZUG.

5. **Mediæval and Florentine Painting.**
Mj. Winter Quarter 2:00.
MR. ZUG.

6. **Venetian and Modern Painting.**
Mj. Spring Quarter; 2:00.
MR. ZUG.

GRADUATE COURSES.

7. **Greek Vases and Coins.** Mj. Spring Quarter.
PROFESSOR TARBELL.
[Not to be given in 1905.]

8. **Raphael.** Mj. Autumn Quarter; 3:00.
MR. ZUG.

9. **Flemish Painting.** Mj. Winter Quarter; 3:00.
MR. ZUG.

10. **Dutch Painting.** Mj. Spring Quarter; 3:00.
MR. ZUG.

VI. THE DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY.

OFFICERS OF INSTRUCTION.

ALBION WOODBURY SMALL, Ph.D., LL.D., *Professor and Head of the Department of Sociology.*
CHARLES RICHMOND HENDERSON, Ph.D., D.D., *Professor of Sociology in the Divinity School.*
GEORGE EDGAR VINCENT, Ph.D., *Professor of Sociology.*
CHARLES ZUEBLIN, Ph.B., D.B., *Professor of Sociology.*
MARION TALBOT, A.M., *Associate Professor of Sanitary Science and Household Administration.*
FREDERICK STARR, Ph.D., *Associate Professor of Anthropology, and Curator of the Anthropological Section of Walker Museum.*
WILLIAM ISAAC THOMAS, Ph.D., *Associate Professor of Sociology.*
JEROME HALL RAYMOND, Ph.D., *Associate Professor of Sociology.*
IRA WOODS HOWERTH, Ph.D., *Assistant Professor of Sociology.*
GRAHAM TAYLOR, D.D., *Professorial Lecturer.*
MARY E. McDOWELL, *Resident Head of the University Settlement.*

FELLOW.

1904–1905.

ERVILLE BARTLETT WOODS, A.B.

INTRODUCTORY.

Specialization may be pursued in either of the five groups: (*a*) Social Philosophy and Methodology; (*b*) Anthropology and Ethnology; (*c*) the Psychology of Races and Masses; (*d*) Social Technology, especially ameliorative agencies for the industrial, the dependent, and the criminal groups; (*e*) Domestic Technology, including dietary and sanitary science. The programme of the department rests upon the principle that human society, as a whole, is a developing process and all the concrete activities of men must be interpreted as parts of this process. Particular associations are subordinate, not merely in the quantitative sense, but in the more important functional sense. All schemes of study accepted by the Department as entitling students to examination for the higher degrees must include proportional attention to the origins, forms, impulses, modes, and ends of human association in general. This condition is necessary to insure adoption of the sociological as distinguished from the individualistic point of view.

The resources of the department, in addition to the teaching force are: (1) a Museum of Anthropology, (2) a laboratory for Domestic Technology, (3) a library which receives all the new literature of importance within its field and is constantly completing the collection of older literature, (4) all the clinical opportunities of the city of Chicago, (5) a department club, maintained by the graduate students for mutual assistance in critical work.

Liberal arrangements are made with students whose particular interests require more than the usual proportion of attention to the biological, the psychological, and the other social sciences.

The members of the Sociology Club are the instructors and graduate students in the Department of Sociology and Anthropology. By a vote of two-thirds of the members of the club other persons, whether connected with the University or not, may be admitted to membership. Meetings are held every fortnight.

The following table exhibits correlations of courses to be included in the work on which candidates for the higher degrees will be examined. Certain substitutions of equivalent work may be made by previous arrangement with the department:

	Group A	Group B	Group C	Group D	Group E
For A.M. - - - - -	Course 72 " 26 " 73 " 53	Course 1 " 4	Course 72 " 26 " 30 " 53	Course 72 " 53 " 56 " 26	Course 42 " 43 " 44 " 45 " 46 " 47
For Ph.D. (Secondary)	Course 72 " 26 " 53 Course 74 (or 94) " 78 (or 95)	Course 1 " 2 " 4 " 7 " 8 " 9	Course 72 " 26 " 53 Course 74 (or 94) " 30 (or 27)	Course 72 " 26 " 53 Course 74 (or 94) Course 56	Consult Associate Professor Talbot
For Ph.D. (Primary) -	Course 72 " 26 " 53 Course 73 (or 98) Course 78 " 94 " 95 " 96 " 30 " 56	Consult Associate Professor Starr	Course 72 " 26 " 53 Course 73 (or 98) " 74 (or 94) Course 27 " 30 Course 24 (or 28) Course 56	Course 72 " 26 " 53 Course 74 (or 94) Course 56 " 61 " 57 " 64 " 65	Consult Associate Professor Talbot

Courses 67 and 77 should be presented in Groups *A*, *C*, and *D*. They may be substituted in above schedules for Ph.D. by arrangement with the instructors concerned.

Choice of the remaining courses should not be made without previously consulting the instructors in the department.

In case the chief work of a candidate is philosophical, at least one piece of original concrete investigation will be required before examination for the degree of Ph.D. In case the chief work of a candidate is investigation of concrete relations, a prerequisite will be at least one piece of independent philosophical work.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M = Minor course = a single course for six weeks. DM = Double Minor course = a double course (two hours daily) for six weeks. Mj = Major course = a single course for twelve weeks. DMj = Double Major course = a double course for twelve weeks.

1. **General Anthropology.**—Outlines of the Science. Tylor, *Anthropology*. The class work will be based on the text-book named.

   Mj. 5 hrs. a week. Spring Quarter, 1904; 12:00. Associate Professor Starr.

2. **Ethnology.**— Study of General Ethnology. Brinton, *Races and Peoples* will first be studied. The subject will then be developed by class lectures, discussions, and preparation by students of essays upon special and assigned topics. The objects sought in this course are, (1) to present the great problems of Ethnology; (2) to consider systems of classification of human races and the basis for such classification; (3) to follow the history of the science.

   Mj. Spring and Autumn Quarters, 1904; 12:00. Associate Professor Starr.

3. **Prehistoric Archæology.**—European. Outline of the science so far as it deals with the Old World. Text-book work, based upon de Mortillet, *Le Prehistorique*, will be supplemented by lectures, collateral reading, and practical work in laboratory and museum. Preliminary to this work study will be made of quaternary geology and of the geological evidence of man's antiquity.

   Mj. Summer Quarter, 1904; 11:30. Associate Professor Starr.

4. **Physical Anthropology.** — Elementary course. Students are made acquainted with the instruments used in the science, with the methods and with the results to be gained. Examples of various races will be examined and the work will be made practical.

   Mj. 4 hrs. a week. Winter Quarter, 1905; 12:00. Associate Professor Starr.

5. **Ethnology.** — Special study of one of the great races of man. The history, geographical distribution, character, life, arts, and achievements of the race selected will be carefully investigated. Its relation to, and its influence upon, the rest of mankind will be studied. This course will alternate, year by year, with Course 2, the subject varying. ASSOCIATE PROFESSOR STARR.

6. **Prehistoric Archæology.** — American. The general subject will be presented in class lectures. Students will select a special topic for individual reading under direction. Theses resulting from such reading will be presented and discussed. Personal field work and laboratory study should, if possible, be done in connection with the thesis work. Course 6 alternates with Course 3. Mj. Winter Quarter, 1905; 12:00.
ASSOCIATE PROFESSOR STARR.

7, 8, 9. **Physical Anthropology—Laboratory Work.**— Topinard, *Eléments d'Anthropologie Générale* will be carefully studied. Students will do practical work in Craniometry, Anthropometry, etc. Besides instrumental work they will tabulate results, pursue original investigation, and prepare reports. Primarily for graduate students.

Offered in successive quarters (except Summer) when the instructor is in residence.

Mj. Spring Quarter, 1904; 2:00. Mj. Autumn Quarter, 1904. Mj. Winter Quarter, 1905.
ASSOCIATE PROFESSOR STARR.

10. **Mexico.**— Study of the Archæology, Ethnology, and Physical Anthropology of Mexico. In addition to text-book study, class lectures will be given and practical work with collections representing the archæology and ethnography of Mexico will be required. Mj.
ASSOCIATE PROFESSOR STARR.

11, 12, 13. **Laboratory Work in Anthropology.**—Selected students, qualified for such work, may pursue studies in the Laboratory or Museum, in Archæology, Ethnology, or Physical Anthropology, provided that, by so doing, they do not trespass upon the field of the other workers in the University. Such study will be under the direction of the instructor in Anthropology, and, if desired, with his assistance.

Offered in successive quarters (except Summer) when the instructor is in residence.

Mj. Spring Quarter, 1904; 2:00. Mj. Autumn Quarter, 1904. Mj. Winter Quarter, 1905.
ASSOCIATE PROFESSOR STARR.

14. **Japan.**— The instruction is chiefly by lectures. Special attention is paid to industrial art and religion. Special topics are assigned for study and each member of the class must present at least two papers for class discussion.

Mj. Summer Quarter, 1904. Mj. Autumn Quarter, 1904; 11:00.
ASSOCIATE PROFESSOR STARR.

15. **The Pueblo Indians of New Mexico.**—The series of class lectures are directive to the literature. Students will investigate and report on special topics.

Mj. Spring Quarter, 1904. Autumn Quarter, 1904; 11:00. ASSOCIATE PROFESSOR STARR.

16, 17. **Seminar:** *General Progress in Anthropological Science.*

Mj. Spring Quarter, 1904. Friday, 2:00.
ASSOCIATE PROFESSOR STARR.

24. **Art and the Artist Class.**—From the sociological point of view, and with particular reference to origins. Animal play and rudimentary expressions of art in animal societies. Mutilation, artificial deformation, stimulants, ornament-dress, tattooing, the dance, music, poetry, painting, sculpture, technology, ceremonial, humor, and play among the natural races. The relation of art to work. Art and gaming in Chicago.

Mj. Autumn Quarter; 9:30.
ASSOCIATE PROFESSOR THOMAS.

26. **Social Origins.**—Association and culture in early times and in tribal life. Early food conditions, migrations, and race-crossings. Origins and relations of invention, trade, warfare, art, marriage. Class distinctions, the professions, legal, political, and ecclesiastical institutions. Ethnological reading. An introductory course. For Senior College and Graduate students.

Mj. Summer Quarter; 8:00.
Autumn Quarter; 8:30.
ASSOCIATE PROFESSOR THOMAS.

27. **Development of Mind in the Race.**— Formation of habit in the tribal stage. Relation of the psychic life of the group to the group activities. Instruction and discipline of children by the parents and by the group. Educational meaning of initiation, secret societies, and tapu. Animistic beliefs and practices, and the influence of analogy, suggestion, and hypnotism in the formation of mind. Language and number. Imitation, invention, and genius. Comparison

of the mental traits of different races, epochs, and social classes, and an estimate of the nature of the psychic interval between the natural and the culture races.

Mj. Autumn Quarter; 8:30.
ASSOCIATE PROFESSOR THOMAS.

28. **Sex in Social Organization.**—The influence of the fact of sex in the development of forms of association and of social activity and structure. Based principally on data from the natural races, and from the population of the city of Chicago, with a preliminary consideration of sex in the lower life forms. Mj.
ASSOCIATE PROFESSOR THOMAS.
Prerequisite: *Courses 26, 27, and 30.*
[Not to be given in 1904–5.]

30. **Primitive Social Control.**—A study of primitive juridical and political systems and of social conventions. Family, clan, tribal and military organization, totemism, tribal and property marks, tapu, personal property and property in land, periodical tribal assemblies and ceremonies, secret societies, medicine men and priests, caste, blood vengeance, salutations, gifts, tribute, oaths, and forms of offense and punishment, among typical tribes of Australia and Oceania, Africa, Asia, and America.

Mj. Winter Quarter; 8:30.
ASSOCIATE PROFESSOR THOMAS.

31. **Origin and Psychology of the Occupations.**—Research course. Mj.
ASSOCIATE PROFESSOR THOMAS.
Prerequisite: *Course 27.*
[Not to be given in 1904–5.]

32. **The Negro in Africa and America.**
Prerequisite: *Courses 26 and 30.*
Mj. Winter Quarter; 9:30.
ASSOCIATE PROFESSOR THOMAS.

35. **Egyptian Life and Antiquities.** Mj.
ASSOCIATE PROFESSOR BREASTED.

42. **House Sanitation.**—This course deals with the house as a factor in health, and includes a study of the following topics: Situation, surroundings, ventilation, heating, drainage, plumbing, lighting, and furnishing. Special attention will be given to modern conceptions of cleanliness and to the investigation of general sanitary conditions from a practical and scientific standpoint. Mj. Autumn Quarter; 11:00.
ASSOCIATE PROFESSOR TALBOT.

43. **Food Supplies and Dietaries.**—The nutritive and money values of food stuffs; the application of heat to food principles; adulterations; methods of preservation; sanitary and economic aspects of food; popular misconceptions as to foods.

Mj. Winter Quarter; 11:00.
ASSOCIATE PROFESSOR TALBOT.

44. **Administration of the House**—This course will consider the order and administration of the house with a view to the proper proportionment of the income and the maintenance of suitable standards; it will include a discussion of the domestic service problem.

Mj. Spring Quarter; 11:00.
ASSOCIATE PROFESSOR TALBOT.

45, 46, 47. **Modern Problems in Household Administration.**—This work will be conducted only for students capable of carrying on independent investigations. It will deal with new and unsettled problems whose solution will help place the subject of household administration on a more secure scientific basis. The topics assigned will be chemical, physiological, bacteriological, economic, or sociological, according to the preferences and training of the individua students. For Senior College and Graduate students.

3Mj. Autumn, Winter, and Spring Quarters; Tues., Thurs., 3:00-5:00.
ASSOCIATE PROFESSOR TALBOT.

52A. **Development and Organization of the Press.**—Historical sketch of the American Press followed by an analysis and description of the technical, editorial and business organization of a modern metropolitan journal, including the systems of general and special news services. Especially for those intending to do newspaper work. Mj. Spring Quarter; 8:30.
ASSOCIATE PROFESSOR VINCENT.

53. **The Family.**—The development of the domestic institutions in lower and higher civilizations; social ethics of the family; legal, industrial, educational and religious problems of the family. Primarily for Graduate students; Senior College students admitted.

Mj. Autumn Quarter; 11:00.
PROFESSOR HENDERSON.

54. **The Labor Movement Historically and Critically Considered.**—Graduate, open to Seniors.
M. First Term, Summer Quarter; 10:30.
PROFESSORIAL LECTURER GRAHAM TAYLOR.

55. **Documentary and Biographical Sources of the History of Modern Philanthropy.**
PROFESSORIAL LECTURER GRAHAM TAYLOR.
[Not offered in 1904-5.]

56. **The Group of Industrials.**—The labor movement from the viewpoint of Sociology. The influence of habitat, race, inheritance, migration, division of labor, towns, institutions, and conventions on the differentiation and opportunities of the so-called operative class, the actual condition of this group, and their participation in the goods of civilization; the essentials of a truly human existence; the modes by which improved ideals of welfare originate and are diffused; the social system of economic, political, and cultural organization through which the group must enjoy the social inheritance; description, criticism, programme of amelioration. Primarily for Graduate students; Senior College students admittted. Mj. Spring Quarter; 11:00.
PROFESSOR HENDERSON.

57. **Rural Communities.**—Conditions of social existence in the country; organization for improvement. Primarily for Graduate students; Senior College students admitted.
M. Second Term, Summer Quarter; 10:30.
PROFESSOR HENDERSON.
[Not to be given in 1904.]

58, 59, 60. **Seminar: Methods of Social Amelioration.** Discussions, reports, and thesis work on contemporary movements for social betterment, chiefly on the basis of studies of Chicago life. For Graduate students.
3Mj. Autumn, Winter, and Spring Quarters; Thursday, 4:00-6:00.
PROFESSOR HENDERSON.

61. **Urban Communities.**—Method of analytic study of social organization; comparisons of ancient and modern cities; the system of community bonds and interests; functions of political, economic, and cultural organizations as determined by social interests; the modes of quickening higher wants and the co-operation of public and private agencies in their satisfaction. Primarily for Graduate students; Senior College students admitted. Mj. Winter Quarter; 12:00.
PROFESSOR HENDERSON.

63. **Ecclesiastical Sociology.**—Methods by which the Church and its societies minister to the welfare of communities. Primarily for Graduate students; Senior College students admitted.
Mj. Autumn Quarter; 12:00.
PROFESSOR HENDERSON.

64. **Contemporary Charities.**—Studies of the nature and origin of depressed and defective classes; principles and methods of relief; organization of benevolence. Mj. Spring Quarter; 11:00.
PROFESSOR HENDERSON.

65. **Social Treatment of Crime.**—Causes of crime; principles of Criminal Anthropology; prison systems; legal factors, juvenile offenders; preventive methods.
M. Second Term, Summer Quarter; 12:00.
PROFESSOR HENDERSON.

67. **The Structure of English Society.**—A study of the economic, physiological, social, æsthetic, intellectual, and ethical elements in a typical society. Mj.
PROFESSOR ZUEBLIN.
[Not to be given in 1904-5.]

68. **Philanthropy in its Historical Development.**—Primarily for Graduate students; Senior College students admitted.
[Not given in 1904.)
Mj. Winter Quarter; 12:00.
PROFESSOR HENDERSON.

69. **The Elements and Structure of Society.**—A study of the economic, physiological, social, æsthetic, intellectual, and moral elements in American society. The interrelation of the individual and the group. The problem of social progress in a democratic society.
Mj. Summer Quarter; 10:30.
PROFESSOR ZUEBLIN.

70. **Municipal Sociology.**—An examination of the means of satisfying communal wants through public activity, with special reference to British and American cities.
Lectures and reports. Visits to municipal institutions. Mj. Summer Quarter; 11:30.
PROFESSOR ZUEBLIN.

72. **An Introduction to Sociology.**—A rapid historical survey of social philosophy from Plato to Comte, followed by a more detailed examination of current sociological themes. For Senior College and Graduate students.
Mj. Autumn Quarter; 8:30.
ASSOCIATE PROFESSOR VINCENT.

73. **Public Opinion.**—A study of social psychology: *i. e.*, the phenomena of the public or ethnic mind. Examination of the theories of Lewes, Tarde, Giddings, Sighele, Brinton, Baldwin, *et al.* Designed for graduate students. Seniors admitted. Mj. Winter Quarter; 8:30.
ASSOCIATE PROFESSOR VINCENT.

74. **The Methodology of the Social Problem.**—Based upon Course 78. A definition of the task of Sociology, and of its relations to the specific social sciences. PROFESSOR SMALL.

NOTE.—Not offered in 1904-5, but the subject-matter of Courses 74 and 78 will furnish the Seminar material.

75. **A Synopsis of Sociological Theory.**—Designed to furnish a conspectus of General Sociology.
M. First Term, Summer Quarter; Tues.-Fri., 10:30. PROFESSOR SMALL.
[Not to be given in 1904-5.]

76. **The Elements of Social Dynamics.**—A Study of the permanent forces that shape human society. Courses 71, 72, 73, 26, and 74 are presupposed. Mj.
PROFESSOR SMALL.
[Not to be given in 1904-5.]

77. **The Social Philosophy of the English People in the Victorian Era.** Mj.
PROFESSOR ZUEBLIN.
[Not to be given in 1904-5.]

78. **The Development of Sociological Method.**—From Comte to the present time. The object of this course is to discover the successive statements of the sociological problem, with the premises, methods, and results in the most influential writings, as an introduction to the necessary formulation of the sociological problem.
See note under Course 74.
PROFESSOR SMALL.
[Not to be given in 1904-5.]

79. **The Democratic Movement in the United States.** For Senior College and Graduate students.
Mj. Autumn Quarter; 2:00.
PROFESSOR SMALL.

80. **The Democratic Movement in England.**—For Senior College and Graduate students.
Mj. Winter Quarter; 2:00.
PROFESSOR SMALL.

81. **The Democratic Movement in France and Germany.**—Courses 79, 80, 81 apply the methods of sociological analysis for the purpose of discovering the peculiar form, spirit and content of democracy, so far as it has appeared in the countries treated. These courses aim to test the validity of the abstract sociology outlined in Courses 94, 95, 96. Spring Quarter; 2:00.
PROFESSOR SMALL.

81A. **Democracy and the Social Movement in the Nineteenth Century.**
M. First Term, Summer Quarter; 1:30.
PROFESSOR SMALL.
[Not to be given in 1904-5.]

82, 83, 84. **Seminar:** ***Problems of Social Teleology.***
3Mj.
PROFESSOR SMALL.
[Not to be given in 1904-5.]

85, 86, 87. **Seminar:** ***Problems of Social Dynamics.*** In this course the facts of Social Psychology are studied with reference to the possibilities of telic progress. 3Mj.
PROFESSOR SMALL.
[Not to be given in 1904-5.]

88, 89, 90. **Seminar:** ***Problems in Methodology and Classification.***
3Mj. Autumn, Winter, and Spring Quarters; Mon., 2:00-4:00. PROFESSOR SMALL.

91. **American Experience with State Control of Social Action.** Mj.
[Not to be given in 1904-5.]

94. **Survey of General Sociology.**—Introduction to the system of sociology developed in Course 95 and concluded in Course 96. Senior College and Graduate students.
Mj. Autumn Quarter; 3:00.
PROFESSOR SMALL.

95. **The Premises of Practical Sociology.**—Analysis of the practical bearings of general sociology upon the principal problems of present society.
Mj. Winter Quarter; 3:00.
PROFESSOR SMALL.

96. **The Ethics of Sociology.**—This course shows how general sociology furnishes the basis for concrete ethics, and conversely that ethical judgments necessarily presuppose a system of sociology. Application of principles developed in Course 95. Analysis of the practical bearings of general sociology upon the principal problems of present society.
Mj. Spring Quarter; 3:00.
PROFESSOR SMALL.

100. **Organization of Religious Education.**—Psychology of religion; ethical ideals; principles of instruction; nurture; methods of organization. Primarily for Graduate students; Senior College students admitted.

Mj. Winter Quarter; 11:00.
M. Second Term, Summer Quarter; 10:30.
PROFESSOR HENDERSON.

It is recommended that Professor Dewey's courses *The Logic, The Psychology,* and *The Sociology, of Ethics,* be taken either before or with Course 96.

Students making Sociology their primary subject are advised to include as many as possible of the following Graduate courses:

I. *A.* 34–38, 42–44.
I. *B.* 10, 17.
II. 2, 7, 8, 9, 10, 23, 29, 30.
III. 11, 12, 13, 14, 21, 22, 32, 41, 43, 44.
IV. 30, and selections from the synoptic courses to be determined by the special direction of the students' sociological study.

In the Winter Quarter Professor Small will give an Open Lecture at 4 o'clock Friday of each week on *The Relations of Sociology to the other Departments of Social Science.* The course is intended for Graduate students who do not make Sociology a principal or secondary subject. It may also serve as a review course for sociological students.

SOCIAL SCIENCE CENTER FOR PRACTICAL TRAINING IN PHILANTHROPIC AND SOCIAL WORK.

UNDER THE DIRECTION OF PROFESSOR GRAHAM TAYLOR.

Provisional Courses of Lecture-Studies, Second and Third Series, "On Dependency and Preventive Agencies," Tuesday and Friday Evenings, February 16 to June 3, 1904.

A TRAINING CENTER FOR SOCIAL WORKERS.

Those who have been longest and most directly at work among the people have always felt the force of two facts. One is the lack of trained helpers and heads of departments in every line of social service. The other is the unfailing supply of people capable of training and, when trained, of high efficiency. The money, time, and talent thus wasted are too costly longer to pass unchallenged.

The invaluable time of the experts at the head of public and private institutions, which is all needed for their management, is wastefully diverted to the training of their subordinates. Less money in efficient hands produces better results than larger funds conditioned by untrained help. Economy in administration and the social value of the work would be more effectively promoted by the supply of trained workers than by anything else. While a certain amount of attention to a personal adjustment is inevitable, much preliminary fitting and training can precede or accompany every worker's entrance upon such work.

So widely has the practicability of more systematic training been felt that courses of study and observation are being conducted by some charitable societies and industrial corporations, as well as by colleges. At the greater centers training schools are being established to meet the more varied demand.

NEW UNIVERSITY EXTENSION ENTERPRISE.

At the initiative of a settlement worker, heartily supported by the representatives of practically all the private and public charity and correctional institutions of the city, the University of Chicago will furnish the great facilities of its Extension Department for the establishment and development of training centers and correspondence courses. The following official prospectus has been issued:

PERSONAL, INSTITUTIONAL, AND PUBLIC EFFORT FOR DEPENDENTS.

Tuesday Evenings.

PROFESSOR CHARLES R. HENDERSON, University of Chicago.

February 16—Lecture 1, "Causes of Dependence." (*a*) Theoretical interest in causation; (*b*) practical interest in causation; (*c*) methods of discovery of causes.

February 23—Lecture 2, "Tests and Investigation." (*a*) The workhouse principle; (*b*) the poorhouse principle; (*c*) individual treatment—German method, Charity Organization Society; (*d*) investigation as basis for treatment.

March 1—Lecture 3, "Division of Labor in Charity." (*a*) Principles of public relief; (*b*) principles of voluntary relief; (*c*) principles of co-operation; (*d*) relief merging into preventive and uplifting agencies.

March 8—Lecture 4, "Personal Influence in Charity." (*a*) The reality of personal influence; (*b*) the need of personal influence; (*c*) the method of personal influence; (*d*) the devices of personal influence.

March 15—Lecture 5, "The Principle of Thrift in Charity Work." (*a*) The aim of saving; (*b*) the limits of saving; (*c*) the methods of saving.

March 22—Lecture 6, "The Studies of Charity Workers." (*a*) The help of science; (*b*) the help of literature; (*c*) the value of discussion.

MR. ALEXANDER JOHNSON, former Superintendent Indiana School for the Feeble Minded.

March 29—Lecture 1, "Institutional Care of the Dependent and Defective Adult."

April 5—Lecture 2, "Institutional Care and Training of Juvenile Defectives."

MR. ROBERT HUNTER, New York City.

April 12—Lecture 2, "Pauperism."

MISS JULIA C. LATHROP, formerly of the State Board of Charities.

April 19—Lecture 1, "Medical Charities" (a discussion).

April 26—Lecture 3, "Public Charities of a Typical State."

May 3—Lecture 4, "Public care of the insane."

Friday Evenings.

DR. HASTINGS H. HART, Superintendent Illinois Children's Home and Aid Society.

February 19—Lecture 1, "The Care of Dependent and Delinquent Children" (introductory). (*a*) Definition of Dependency and Delinquency (scope of the subject); (*b*) legislation respecting dependent and delinquent children; (*c*) public care of dependent children—by the state, by the county, or by public contributions to private institutions; (*d*) public care of delinquent children—by the state, the city, or by public contributions to private institutions.

February 26—Lecture 2, "Institutional Care of Dependent Children." (*a*) The orphan asylum plan—bringing up children in asylums; (*b*) the modified asylum plan—using asylums as temporary training schools; (*c*) industrial schools (not reformatories), *e. g.*, Foulke and Long Institute, Philadelphia; Glenwood Manual Training School Farm; (*d*) institutions for defectives, feeble minded, epileptic, cripples; (*e*) private institutions for delinquent children, refuges, protectories, etc.

March 4—Lecture 3, "Care of Dependent and Delinquent Children in Family Homes." *a.* The placing-out system; its history, principles, advantages, and limitations. *b.* (1) By public authority, "binding out," state systems (Massachusetts, Michigan, Indiana, etc.); (2) orphan asylums and other private institutions; (3) placing-out societies.

MISS HARRIET FULMER AND DR. WILLIAM A. EVANS.

March 11—Lecture, "The System of District Nursing and the Effort to Meet the Tuberculosis Problem in Chicago."

MR. ERNEST P. BICKNELL, Chicago Bureau of Charities.

March 18—Lecture, "Prison and Jail Systems."

MR. JOHN J. SLOAN, Superintendent House of Correction, Chicago.

March 25—Lecture, "Legitimate Prison Industries."

MR. J. EMERY LYON, Superintendent Central Howard Association.

April 1—Lecture, "Society and the Prisoner."

MR. ROBERT HUNTER, New York City.

April 8—Lecture 1, "Poverty at Home and Abroad."

April 15—Lecture 3, "Immigration."

MISS JULIA C. LATHROP.

April 22—Lecture 2, "The English Poor Law; Its Relation to American Public Charities."

MR. ERNEST P. BICKNELL.

April 29—Lecture, "Public Charities of City and County."

JUDGE JULIAN W. MACK.

May 6—Lecture, "Methods of Securing Financial Support for Charitable Purposes."

PREOCCUPYING AND PREVENTIVE POLICY, AGENCIES, AND METHODS.

Tuesday and Friday Evenings.

MR. RAYMOND ROBINS, City Homes Association, Chicago.

May 10, Lecture, "Summary of Legislation on Housing, Compulsory Education, Child Labor, Sale of Liquors to Minors, Vagrancy," etc.

PROFESSOR CHARLES ZUEBLIN, University of Chicago.

May 13—Lecture, "Improved Dwellings, Open Spaces, Public Playgrounds, and Parks."

PROFESSOR GRAHAM TAYLOR.

May 17—Lecture, "Province of the Public Support and Management of Social Utilities."

MISS MARY E. MCDOWELL, University of Chicago Settlement.

May 20—Lecture, "Extension of the Public School and Educational Agencies to Meet Social Needs by Vacation Schools, Neighborhood Centers," etc.

MR. GEORGE W. PERKINS, Cigarmakers' International Union.

May 24—Lecture, "Insurance Benefits of Trades Unions."

PROFESSOR CHARLES ZUEBLIN.

May 27—Lecture, "Co-operative Trading Associations."

MISS JANE ADDAMS, Hull House.

May 31—Lecture, "Function of Social Settlements."

PROFESSOR GRAHAM TAYLOR.

June 3—Lecture, "Ethical and Religious Resources."

These courses will be supplemented by carefully supervised visits to public institutions and private philanthropic agencies, and by opportunities for discussion with instructors and fellow students. Certificates will be granted for the satisfactory completion of the lecture course and field work.

Registration fee for the entire session, $8.00. Half rates offered to workers in public institutions, philanthropic organizations, church agencies, and social settlements, payable in advance at the office of the University, 410 Fine Arts Building, 203 Michigan avenue, or at the University Extension Division, University of Chicago.

A limited number of students may apply for temporary residence at the social settlements in Chicago.

Inquiries and applications for registration may be made to Mr. Walter A. Payne, Extension Division, University of Chicago. Professor Graham Taylor may be consulted Friday evenings, 7:30 to 8:00 P. M., Room 440, Fine Arts Building.

SUCCESS IN LONDON AND NEW YORK.

The practical value of this lecture-study and field work has been demonstrated both at home and abroad. In London, it is interesting to note, the initiative was given to such educational effort by the Women's University settlement, of which Miss Helen Gladstone, daughter of the great prime minister, is the resident warden. From the year's course of study and practice furnished there, well-trained women have gone forth to occupy paid or honorary positions at many centers of influence and usefulness. Those engaged in this effort have joined forces with Charles S. Loch, of the London Charity Organization Society, and others, in organizing a school of sociology and social economics. The demand for its instruction was proved at the first session by a large attendance and wide public approval. It is still more successful this second year. The summer school in philanthropic work conducted by the New York City Charity Organization Society has drawn so many students from far and wide, not a few of them from the West, that it begins a full two-year course this season.

NECESSITY FOR TRAINING.

The announcement of our Chicago social-science center, outlined above, is only provisional and preparatory to a full course covering two years, which will be offered in the autumn of 1904. In addition to this, the Senate of the University of Chicago has adopted an academic curriculum for a College of Religious and Social Science, co-ordinate with the College of Arts and Literature and the College of Commerce and Administration. This course will be more exacting in its requirements for admission, will cover four years, and will lead to a University degree. It will afford students of the center opportunities to carry their studies farther, while the students of the College will share the value of the practical observation and field work furnished by the center. It is confidently expected that the offer to supply training will develop a constantly growing demand for it among those in institutional work, social movements, church agencies, shop secretaryships, and the civil service, as well as by many who should bear a larger share of citizenship.

VI A. THE DEPARTMENT OF HOUSEHOLD ADMINISTRATION.

OFFICERS OF INSTRUCTION.

A. INSTRUCTORS ATTACHED TO THE DEPARTMENT OF HOUSEHOLD ADMINISTRATION.

MARION TALBOT, A.M., *Associate Professor of Household Administration.*
ALICE PELOUBET NORTON, A.M., *Assistant Professor of Household Administration.*
SOPHONISBA PRESTON BRECKINRIDGE, Ph.D., *Instructor in Household Administration.*

B. INSTRUCTORS IN OTHER DEPARTMENTS OFFERING INSTRUCTION IN THIS DEPARTMENT.

CHARLES RICHMOND HENDERSON, Ph.D., D.D., *of the Department of Sociology.*
CHARLES ZUEBLIN, Ph.B., D.B., *of the Department of Sociology.*
WILLIAM ISAAC THOMAS, Ph.D., *of the Department of Sociology.*
GEORGE EDGAR VINCENT, Ph.D., *of the Department of Sociology.*
ALEXANDER SMITH, Ph.D., *of the Department of Chemistry.*
HERBERT NEWBY McCOY, Ph.D., *of the Department of Chemistry.*
LAUDER WILLIAM JONES, Ph.D., *of the Department of Chemistry.*
FRANK RATTRAY LILLIE, Ph.D., *of the Department of Zoölogy.*
DAVID JUDSON LINGLE, Ph.D., *of the Department of Physiology.*
EDWIN OAKES JORDAN, Ph.D., *of the Department of Bacteriology.*
NORMAN MacLEOD HARRIS, M.B., *of the Department of Bacteriology.*
LILLIAN SOPHIA CUSHMAN, *of the School of Education.*
CAROLINE CRAWFORD, *of the School of Education.*
ALTHEA HARMER, *of the School of Education.*
ALICE DYNES FEULING, S.B., *of the School of Education.*
ELIZABETH EUPHROSYNE LANGLEY, *of the School of Education.*
CLARA ISABEL MITCHELL, *of the School of Education.*
ANNETTE BUTLER, *of the School of Education.*

FELLOW.

1904-1905.

EDNA DAISY DAY, S.B., S.M.

INTRODUCTORY.

The courses in this department are planned to give students (1) a general view of the place of the household in society as a means of liberal culture; (2) training in the rational and scientific administration of the home as a social unit; (3) preparation to serve as teachers of home economics, domestic science, and household arts, or as social workers in institutions whose activity is largely expressed through household administration. The regular courses of the department are supplemented by courses offered by instructors in other departments, who will aid in the administration of the department.

PREREQUISITES.

In general the courses are open to Graduate and Senior College students and to Unclassified students who have had special preliminary training. Certain courses are also open as electives to Junior College students. In the case of students desiring to pursue a special line of work or to fit themselves for some particular field of activity, the instructors will give assistance in organizing courses of study. The work of this as of other departments may be used under the rules of the University toward fulfilling the requirements for the different degrees. No special certificate is awarded, but an official statement of courses satisfactorily completed is granted on request.

SPECIAL FACILITIES.

Opportunities are afforded for gaining practical experience in housekeeping, lunch-room management, marketing, household accounting, and teaching. In connection with the College of Religious and Social Science and the Settlements Association there are frequent occasions for active participation in such philanthropic work as supplement the instruction of the class-room.

One fellowship is assigned the department for 1904–5.

The Household Administration Club meets fortnightly to discuss important new literature, to present results of investigations carried on by instructors and students in the department, and to hear specialists on topics not fully treated in the regular curriculum.

The following addresses are provisionally arranged for the year 1904–5:

"The Moral Problems of Family Life." James H. Tufts, Ph.D., Professor of Philosophy.

"Teachings of Christ and the Apostles concerning the Family." Shailer Mathews, A.M., D.D., Professor of New Testament History and Interpretation.

"The Co-operation of the Family with the Religious Activities of the Community." Georgia L. Chamberlin, Secretary of the American Institute of Sacred Literature.

"Music as a Means of Education and Pleasure in the Family." Mrs. May Root Kern, of the School of Education.

"Some Legal Aspects of the Family." Ernst Freund, J.U.D., Ph.D., Professor of Law.

"The Relation of the Household to Charities, Public and Private." Charles Richmond Henderson, Ph.D., D.D.. Professor of Sociology.

"Saving and Spending." Charles Zueblin, Ph.B., D.B., Professor of Sociology.

"Business Transactions of the Household." Trevor Arnett, A.B., University Auditor.

"Modern Aspects of Household Labor." Jane Addams, of Hull House.

"The Production of Wheat." John Paul Goode, Ph.D., Assistant Professor of Geography.

"Marketing." Clara Hathorne Shaw, A.B.

"Physical Care of the Body." Joseph Edward Raycroft, A.B., M.D., Assistant Professor of Physical Culture.

"The Growing Nervous System." H. H. Donaldson, Ph.D., Professor of Neurology.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M = Minor course = a single course for six weeks. DM = Double Minor course = a double course (two hours daily) for six weeks. Mj = Major course = a single course for twelve weeks. DMj = Double Major course = a double course for twelve weeks.

42. **House Sanitation.**—This course deals with the house as a factor in health and includes a study of the following topics: Situation, surroundings, ventilation, heating, drainage, plumbing, lighting, and furnishing. Special attention will be given to modern conceptions of cleanliness, and to the investigation of general sanitary conditions from a practical and scientific standpoint.
Mj. Autumn Quarter; 11:00.
ASSOCIATE PROFESSOR TALBOT.

43. **Food Supplies and Dietaries.**—The nutritive and money values of foodstuffs; the application of

heat to food principles; adulterations; methods of preservation; sanitary and economic aspects of food; popular misconceptions as to foods.

Mj. Winter Quarter; 11:00.

ASSOCIATE PROFESSOR TALBOT.

44. **Administration of the House.**—This course will consider the order and administration of the house with a view to the proper apportionment of the income and the maintenance of suitable standards. It will include a discussion of the domestic-service problem. Open to Junior College students. Mj. Spring Quarter; 11:00.

ASSOCIATE PROFESSOR TALBOT.

45, 46, 47, **Modern Problems in Household Administration.**—This work will be conducted only for students capable of carrying on independent investigations. It will deal with new and unsettled problems whose solution will help place the subject of household administration on a more secure scientific basis. The topics assigned will be chemical, physiological, bacteriological, economic, or sociological, according to the preferences and training of the individual students.

3Mj. Autumn, Winter, and Spring Quarters; Tues., Thurs., 3:00–5:00.

ASSOCIATE PROFESSOR TALBOT.

50, 51, 52, 53. **Special Research.**—Open only to students who have had special training and experience.

4Mj. Summer, Autumn, Winter, and Spring Quarters.

THE INSTRUCTORS IN THE DEPARTMENT.

121. **Food and its Preparation.**—Designed especially for students in the general and kindergarten courses of the School of Education.

Mj. Spring Quarter; Tues., Wed., Thurs., Fri., 8:30.

Laboratory: Mon., 2:00–4:00.

ASSISTANT PROFESSOR NORTON.

122. **Food and Dietetics.**—The nature, nutritive constituents, and relative values of foods; typical processes of food production; the cost of food; dietaries. Mj. Autumn Quarter.

Lectures: Mon., Wed., Thurs., 8:30.

Laboratory: Mon., Tues., 2:00–4:00.

ASSISTANT PROFESSOR NORTON.

Prerequisite: *Course 121 or equivalent.*

123. **The Application of Heat to Food Materials.**—The methods by which heat is applied to food, and the changes caused in the different food constituents; household fuels and their uses; cooking apparatus and the principles of its construction; primitive and modern methods of cookery. Mj. Winter Quarter.

Lectures: Mon., Wed., 8:30.

Laboratory: Mon., Tues., 2:00–5:00.

ASSISTANT PROFESSOR NORTON.

Prerequisite: *Course 122 or Course 43 and Course 121 or equivalent.*

124. **Special Methods in the Preparation of Food.**—Advanced work in experimental cookery.

Mj. or ½Mj. Autumn Quarter.

Laboratory: Thurs., Fri., 2:00–4:30.

ASSISTANT PROFESSOR NORTON.

125. **Chemistry of Foods.**—The different food principles, with methods of identifying and separating them; food adulterations and household methods for their detection. Mj. Spring Quarter,

Lectures: Mon., Wed., 9:30.

Laboratory: Tues., Thurs., 2:00–5:00.

ASSISTANT PROFESSOR NORTON.

Prerequisite: *General Chemistry and Course 122, or Course 43.*

126. **Special Problems in Food Chemistry.**—Laboratory work. Individual problems assigned for investigation. Mj. or ½Mj. Spring Quarter.

Hours to be arranged.

ASSISTANT PROFESSOR NORTON.

Prerequisite: *Course 125.*

127. **Evolution of the House.**—The development of the modern house from primitive conditions; modern household problems of furnishing, equipment, and care. Mj. Autumn Quarter; 9:30.

ASSISTANT PROFESSOR NORTON.

128. **The Teaching of Home Economics.**—The purpose and method of the work; courses of study; school equipments; the relation of the subject to other studies and to the life of the school.

Mj. Winter Quarter; 9:30.

ASSISTANT PROFESSOR NORTON.

10. **The Organization of the Retail Market.**—An elementary course intended to familiarize the student with the machinery of trade with which the householder comes into direct contact, and designed to offer a foundation for the determination of the responsibility of the consumer. The following topics will be considered: The development of present methods of distribu-

tion from mediaeval forms; the present specialized system, as illustrated by selected industries, which deal with food, clothing, and household equipment; the departmental and catalogue store, and the employment agency as the means by which a distribution of domestic labor is effected. Visits will be made to typical distributive establishments. Open to Junior College students. Mj. Autumn Quarter; 2:00.
DR. BRECKINRIDGE.

20. **The State in Relation to the Household.** — A course intended to review the relations between the householder and the public, as represented by federal, state, or municipal authority. Regulations concerning the food supply, the materials used in clothing and furnishings, and the structure and care of the building will be studied, in order to formulate the principles upon which a proper degree of individual freedom may be adjusted to the necessary amount of public control. Open to Senior College and Graduate students. Mj. Winter Quarter; 2:00.
DR. BRECKINRIDGE.

21. **The Legal and Economic Position of Women.**— A study of the status of women with reference to their property; the effect of marriage; their share in the control of children; their opportunities as wage-earners and producers; their functions as householders and consumers.
Mj. Spring Quarter; 2:00.
DR. BRECKINRIDGE.

Prerequisite; *Political Economy 1 and 2.*

[VI. Department of Sociology.]

71. **An Introduction to the Study of Society.** — A descriptive account of the organization and processes of modern society.
Mj. Spring Quarter; 11:00.
PROFESSOR VINCENT.

61. **Urban Communities.**—Method of analytic study of social organization; comparisons of ancient and modern cities; the system of community bonds and interests; functions of political, economic, and cultural organizations as determined by social interests; the modes of quickening higher wants and the co-operation of public and private agencies in their satisfaction.
Mj. Winter Quarter; 12:00.
PROFESSOR HENDERSON.

69. **The Elements and Structure of Society.**—A study of the economic, physiological, social, æsthetic, intellectual, and moral elements in American society; the interrelation of the individual and the group; the problem of social progress in a democratic society.
Mj. Summer Quarter; 10:30.
PROFESSOR ZUEBLIN.

26. **Social Origins.**—Association and culture in early times and in tribal life; early food conditions. migrations, and race-crossings; origins and relations of invention, trade, warfare, art, marriage; class distinctions; the professions; legal, political, and ecclesiastical institutions.
Mj. Summer Quarter; 8:00.
Autumn Quarter; 8:30.
ASSOCIATE PROFESSOR THOMAS.

52. **American Cities.**—A study of the modern city with special reference to American municipalities, and of physical conditions, public services, political, industrial, and social groupings. Designed to offer a foundation for the study of special city problems. Expeditions to typical institutions. Mj. Winter Quarter; 11:00.
PROFESSOR VINCENT.

53. **The Family.**—The development of the domestic institutions in lower and higher civilizations; social ethics of the family; legal, industrial, educational, and religious problems of the family. Mj. Autumn Quarter; 11:00.
PROFESSOR HENDERSON.

57. **Rural Communities.**—Conditions of social existence in the country; organization for improvement.
M. Second Term, Summer Quarter; 10:30.
PROFESSOR HENDERSON.
(Not to be given in 1904–5.)

[XX. Department of Chemistry.]

1. **Elementary General Chemistry.**
Class-room, 3 hrs. a week, 12:00.
Laboratory, 6 hrs. a week.
Mj. Autumn Quarter.
PROFESSOR SMITH.

Prerequisite: *Preparatory Physics.*

2. **General Inorganic Chemistry I.**—Continuation of Course 1 or of Preparatory Chemistry.
Class-room, 3 hrs. a week, 8:30.
Laboratory, 6 hrs. a week.
Mj. Autumn Quarter.
ASSISTANT PROFESSOR MCCOY AND DR. HOLMES.
Mj. Winter Quarter. PROFESSOR SMITH.

3. **General Inorganic Chemistry II.**—Continuation of Course 2.
Class-room, 3 hrs. a week, 8:30.
Laboratory, 6 hrs. a week.
Mj. Winter Quarter.
ASSISTANT PROFESSOR MCCOY AND DR. HOLMES.
Mj. Spring Quarter. PROFESSOR SMITH.

1A. **General Inorganic Chemistry.**—*Elementary Course.* DM. First Term, Summer Quarter.
Class-room, 6 hrs. a week; 11:00.
Laboratory work, 12 hrs. a week; 2:00–5:00.
PROFESSOR BYERS.
Prerequisite: *Preparatory Physics.*

2A. **General Inorganic Chemistry.**—Continuation of Course 1A.
DM. Second Term, Summer Quarter.
PROFESSOR BYERS.

4. **Elementary Organic Chemistry.**
Class-room, 3 hrs. a week; 8:30.
Laboratory work, 6 hrs. a week.
Mj. Autumn Quarter. DR. JONES.

[XXII. Department of Zoology.]

2. **General Biology.**—Lectures, recitation, and laboratory work dealing with topics of a general biological nature, such as: the classification of the biological sciences; protoplasm; the cell; structure and activities of unicellular animals; structure and activities of multicellular animals. Mj. Autumn Quarter.
Lectures: Mon., Wed., Fri.; 4:00.
Laboratory, 6 hrs. a week.
ASSOCIATE PROFESSOR LILLIE.

[XXIV. Department of Physiology.]

1. **Elementary Physiology.**—This course deals with the elementary facts concerning the structure and functions of the human body.
Class-room, 3 hrs. a week.
Laboratory, 4 hrs. a week.
Mj. Autumn Quarter.
ASSISTANT PROFESSOR LINGLE AND MR. BROWN.
Mj. Spring Quarter.
ASSISTANT PROFESSOR LINGLE AND MR. BROWN.
DM. First Term, Summer Quarter.
DR. NEILSON AND MR. BROWN.

2. **Elementary Physiology.**—Continuation of Course 1.
Mj. Winter Quarter.
ASSISTANT PROFESSOR LINGLE.
DM. Second Term, Summer Quarter.

[XXVIII. Department of Pathology and Bacteriology.]

1. **General Bacteriology.**
Mj. ASSOCIATE PROFESSOR JORDAN AND ASSISTANTS.
Prerequisites: *General Chemistry and use of Microscope.*

5. **Public Hygiene.**—The applications of Bacteriology to municipal hygiene: water supply, food supply, sewage disposal, etc. Mj. Spring Quarter.
ASSOCIATE PROFESSOR JORDAN.

6. **Public Health Laboratory Methods.**—Bacterial diagnosis of infectious material—tuberculosis, diphtheria, typhoid fever; chemical, bacterial, and microscopic examination of water, milk, ice, food, etc.
Mj. Spring Quarter; 2:00–5:00, Mon.–Fri.
MR. IRONS.

16. **Sanitary Aspects of the Milk Supply.**
Mj. Winter Quarter.
DR. HARRIS.
Prerequisites: *Chemistry and Bacteriology.*

[School of Education.]

121A. **Food and its Preparation.**—A study of the composition of the common foods and their place in the dietary. Lectures and laboratory work in experimental and practical cooking.
Mj. Summer Quarter; 10:30–12:30.
MRS. FEULING.

129A. **The Teaching of Domestic Science in Primary and Secondary Schools.**—(Intended for students who have had technical training.) The course will treat of the teaching of the various branches of domestic science in the primary and secondary schools. Special attention will be given to the relation of this subject to the other subjects in the curriculum. The course will consist of lectures and laboratory work.
Mj. Summer Quarter; 8:00–10:00.
MRS. FEULING.

169. **Design.**—This course will be developed along the following general lines: Analysis of historic architectural types; study of the elements of expression; the house as an æsthetic problem.
Mj. Winter Quarter; 11:00.
MISS CUSHMAN.

171. **Textiles, I.**—Simple processes and appliances for studies with reference to their historic development, with use of both crude and prepared material. Mj. Autumn Quarter; 8:30.
MISS HARMER.

172. **Textiles, II.** — Problems and original work in color and design, in connection with weaving and dyeing; applications in cloth printing, pattern weaving, and embroidery.
Mj. Winter Quarter; 8:30.
MISS HARMER.
Prerequisite: *Textiles, I.*

173. **Textiles, III.** — House Decoration: Consideration of wall-coverings and furnishings in relation to artistic and economical furnishing of a simple house, with laboratory work.
Mj. Spring Quarter; 8:30.
MISS HARMER.
Prerequisites: *Textiles, I and II*, or *Textiles, I and Design 169.*

174. **Textiles, IV, V, VI.**—Advanced study of design, color, and textures, with their application in articles for house furnishings.
3Mj. Autumn, Winter, and Spring Quarters.
MISS HARMER.
Prerequisites: *Textiles, I, II, and III.*

180. **Art Course in Sewing.**—Sewing of household linens; mending; designing; draughting and making of muslin undergarments.
Mj. Autumn Quarter.
MISS MITCHELL.

180A. **General Course in Sewing.**—Sewing in the elementary and secondary schools; materials and models fitted to the different grades; some study of the history of costume; making of simple costumes to illustrate work in geography and history; pattern draughting.
Prerequisite: *Plain Sewing.*
Mj. Winter Quarter.
MISS MITCHELL.

180B. **Design as Applied to Dress.**—Study of fabrics, color and design in dress; laboratory work in draughting, cutting, making, and trimming garments. Mj. Spring Quarter.
MISS MITCHELL.

189. **Woodwork.**—A course in manual training as applied to interior woodwork and to furniture.
Mj. Spring Quarter.
Lectures: Tues., Thurs., 9:30.
Laboratory: Hours to be arranged.
MISS LANGLEY AND MISS BUTLER.

212. **Child Hygiene.**—Studies of the body; metabolism; locomotor mechanism; growth; sense organs; school hygiene. Mj. Spring Quarter; 9:30.
MISS CRAWFORD.

VII. THE DEPARTMENT OF COMPARATIVE RELIGION.

OFFICERS OF INSTRUCTION.

GEORGE STEPHEN GOODSPEED, PH.D., *Professor of Comparative Religion.*

GEORGE FOOTE MOORE, D.D., LL.D. (*Professor in the Harvard Divinity School*), HASKELL *Professorial Lecturer on Comparative Religion.*

CHARLES CUTHBERT HALL, D.D., LL.D. (*President of Union Theological Seminary*), BARROWS *Professorial Lecturer on Comparative Religion.*

EDMUND BUCKLEY, PH.D., *Docent in Comparative Religion* (Summer Quarter).

INTRODUCTORY.

The regular work in the department is devoted to the three branches of Comparative Religion, viz., History and Philosophy of Religion and Comparative Theology. An elementary major course is offered to all who wish to gain a survey of the field. Special courses on the history of primitive beliefs, the Indo-European Religions, and the Semitic Religions provide for a year's class-room work. At this stage the student is prepared for courses in the Introduction to Religion and in the Philosophy of Religion. The Research courses provide for advanced investigation in which all the resources of the student are demanded. Courses 1–8 and the Research courses are required when Comparative Religion is taken as a major subject for the degree of Doctor of Philosophy and Courses 1–4, two courses selected from Nos. 5–8 and one Research course are required of one who takes Comparative Religion as a minor subject for the same degree. Equivalents for these courses to the number of three Majors, selected from other related departments of the University, will be accepted, but the selection must be approved by this department before the student undertakes the work and their credit value will not always be accepted as equal to courses in the department itself.

Two "Lectureships" on the *Relations of Christianity to the other Religions*, established by the late Mrs. Caroline E. Haskell, are under the direction of this department. The "Haskell Lectures" are delivered at the University yearly. The "Barrows Lectures" are delivered every three years in cities of India.

University Fellowships, yielding incomes of from $520 to $320, are open to students in Comparative Religion on equal terms with students in other departments and are assigned yearly in accordance with the University regulations governing Fellowships.

COURSES OF INSTRUCTION.*

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. Mj=Major course=a single course for twelve weeks.

1. **An Outline History of Religion.**
   Mj. Autumn Quarter, 3:00; Repeated in Spring Quarter.
   PROFESSOR GOODSPEED.

2. **Religions of Primitive Peoples.**
   Mj. Summer Quarter; 1907.
   PROFESSOR GOODSPEED.

3. **Religions of the Semites.**—(Babylonia, Egypt, Syria and Palestine, Phœnicia, Islam.)
   Mj. Autumn Quarter, 1906.
   PROFESSOR GOODSPEED.

4. **Religions of the Indo-European Peoples.**—India, Persia, Greece and Rome, Kelts and Teutons.
   Mj. Summer Quarter, 1905.
   PROFESSOR GOODSPEED.

5. **Introduction to Comparative Religion.**
   Mj. Autumn Quarter, 1905.
   PROFESSOR GOODSPEED.

6. **History of the Philosophy of Religion.**
   Mj. Spring Quarter, 1906.
   PROFESSOR GOODSPEED.

7. **The Science of Religion.**
   Mj. Summer Quarter, 1904; 9:30.
   DR. BUCKLEY.

8. **The Philosophy of Religion.**
   Mj. Summer Quarter, 1905; 9:30.
   DR. BUCKLEY.

9. **Fundamental Problems of the History of Religion.** (Haskell Lectures.)
   No credit is given for this course.
   Winter Quarter, 1905, January–February.
   PROFESSOR GEORGE F. MOORE.

10. **Comparative Theology.**—Research.
    3Mj. Summer, Autumn, and Spring Quarters. 2 hrs. a week. Before registering, students will consult as to subject and time with the instructor. PROFESSOR GOODSPEED.

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*Courses in this department are primarily for Graduate students, and are open to Undergraduates only after consultation with the instructor.

VIII. THE DEPARTMENT OF SEMITIC LANGUAGES AND LITERATURES.

OFFICERS OF INSTRUCTION.

WILLIAM RAINEY HARPER, Ph.D., D.D., LL.D., *Professor and Head of the Department of the Semitic Languages and Literatures.*

EMIL GUSTAV HIRSCH, A.M., D.D., LL.D., Lit.D., *Professor of Rabbinical Literature and Philosophy.*

IRA MAURICE PRICE, D.B., Ph.D., LL.D., *Professor of the Semitic Languages and Literatures.*

GEORGE STEPHEN GOODSPEED, Ph.D., *Professor of Comparative Religion and Ancient History.*

ROBERT FRANCIS HARPER, Ph.D., *Professor of the Semitic Languages and Literatures.*

JAMES RICHARD JEWETT, Ph.D., *Professor of the Arabic Language and Literature.*

JAMES HENRY BREASTED, Ph.D., *Associate Professor of Egyptology and the Semitic Languages; Director of Haskell Oriental Museum.*

HERBERT LOCKWOOD WILLETT, Ph.D., *Assistant Professor of the Semitic Languages and Literatures.*

EDGAR JAMES BANKS, Ph.D., *Instructor in Semitic Languages and Turkish.*

EDGAR JOHNSON GOODSPEED, Ph.D., *Instructor in Biblical and Patristic Greek; Assistant Director of Haskell Oriental Museum.*

JOHN M. P. SMITH, Ph.D., *Associate in the Semitic Languages and Literatures.*

FELLOWS.

1904–1905.

ALLEN HOWARD GODBEY, A.M. OLAF ALFRED TOFFTEEN, A.B.
THOMAS McMASTER TWEED WILSON, A.B.

INTRODUCTORY.

ARRANGEMENT OF WORK.

The work of the student ordinarily will be arranged according to one of four or five plans:

I. PRELIMINARY COURSES.

The preliminary work includes courses in the Hebrew language aggregating four Majors. These courses, viz., (*a*) 1; (*b*) 2, or 4; (*c*) 22, or 24, or 36, or 38—

1) Constitute the work in Hebrew prescribed for those students in the Graduate Divinity School who desire to secure a knowledge of the language, and

2) Serve as the basis for more advanced work in the Semitic Languages and Literatures, or in the Old Testament Literature and Theology. Students who have already performed this work before entering the University of Chicago will receive credit for the same upon examination.

II. SECONDARY WORK IN OLD TESTAMENT LITERATURE AND THEOLOGY.

Old Testament Literature and Theology, when presented as a secondary subject for a Doctor's degree, will be understood to include, in addition to the preliminary courses,work amounting to six Majors, which shall be systematically arranged, and be approved by the head of the department. The student is recommended to select either (1) three historical courses (viz., 113, 114, 115), with three courses in exegetical work selected from the courses offered, or (2) work made up of Courses 36, 38, 42, 48, 50, 54, 80–82; or (3) work in Rabbinical literature and theology, selected from Courses 120–139.

III. SECONDARY WORK IN SEMITIC LANGUAGES AND LITERATURES.

When a secondary subject is offered in Semitic Languages and Literatures, the student may select either Aramaic, Arabic, Assyrian, or Egyptian, in an amount equal to at least six Majors.

IV. PRINCIPAL WORK IN OLD TESTAMENT LITERATURE AND THEOLOGY.

Old Testament Literature and Theology, when presented as a principal subject, will be understood to include —

1) A thorough knowledge of the Hebrew language, including syntax and lexicography, and a good acquaintance with Biblical Aramaic and Syriac;

2) An ability to read any part of Hebrew literature;

3) A knowledge of Hebrew history in all its periods, and of ancient history, especially Egyptian, Assyrian, and Persian, in its bearing upon the Old Testament (see Courses 50–56);

4) An acquaintance with the chronological development of Old Testament literature in its various forms of legislation, prophecy, and wisdom; also a knowledge of the origin and growth of the canon, of the text, and of the principles of Old Testament interpretation;

5) A familiarity with the history of the Hebrew religion and the development of the theological ideas of the Hebrews;

6) Some familiarity with the Rabbinical literature and a general acquaintance with New Testament literature, with special reference to the use made of the Old Testament in the New Testament.

V. PRINCIPAL WORK IN SEMITIC LANGUAGES AND LITERATURES.

When the student selects for his principal subject the Semitic languages, he will be expected to have gained a working knowledge of Aramaic, Assyrian, and Arabic, in addition to Hebrew. He will be permitted to lay special emphasis upon either Hebrew, Arabic, Assyrian, or Egyptian, and in the special field which he thus selects the amount of work required will be determined in part by the character of the field itself, and also in part by the general scope of his work. In any case, work in comparative grammar and comparative lexicography will be expected. The total amount of work required for a degree cannot be stated in definite form. The degree is granted only to those who can give evidence of high attainment in the department and of ability to do independent investigation.

COURSES OF INSTRUCTION.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks.
Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

REMARK: In the Semitic Department all courses are intended primarily for Graduate and Divinity students, but they may be taken by Senior College students who are prepared therefor.

I. HEBREW LANGUAGE AND OLD TESTAMENT LITERATURE.

1. LINGUISTIC COURSES.

1. **Hebrew Language.**—Gen., chaps. i–viii; including the grammatical principles of the language, the acquisition of a vocabulary, and translation of English into Hebrew. The ground covered in Harper, *Introductory Hebrew Method* and *Elements of Hebrew.*

   This course is given twice each year, viz.:

   DMj. or 2DM. Summer Quarter; 8:00 and 11:30. PROFESSOR PRICE, AND ASSISTANT PROFESSOR WILLETT.

   2Mj. Autumn and Winter Quarters; 2:00. PROFESSOR PRICE.

2. **Historical Hebrew.** *The Books of Samuel.*—Critical translation of portions, with a study of Hebrew Syntax. Continuation of Course 1.

   Mj. Autumn Quarters, 1904, 1905, 1906. ASSISTANT PROFESSOR WILLETT.

4. **The Books of Kings.**—Critical translation of the more important portions, with special reference to the syntax and chronology.

   Mj. Spring Quarter, 1904; 2:00. DR. SMITH.

   Mj. Summer Quarter, 1904. PROFESSOR R. F. HARPER.

6. **The Minor Prophets.**—Critical translation of the Hebrew text with a study of the vocabulary and of the principles of syntax as they are illustrated in the text. Mj. Winter Quarter, 1906. DR. SMITH.

8. **Hebrew Sight Reading.** *The Prophetic Books.* DR. SMITH.

10. **Proverbs.**—A critical reading of selected portions with special reference to Hebrew Lexicography. PROFESSOR R. F. HARPER.

12. **Advanced Hebrew Grammar.**—Etymology. M. Second Term, Summer Quarter, 1904. PROFESSOR PRICE.

13. **Advanced Hebrew Grammar.**—Syntax. M. First Term, Summer Quarter, 1904. PROFESSOR PRICE.

2. Critical and Exegetical Courses.

A. Hebrew.

20. **Books of Kings and Their Parallel Assyrian Records.**—Historical and Critical work.
Mj. Autumn Quarter, 1906; 3:00.
Professor Price.

22. **Isaiah, chaps. 1–39.**—Critical reading of the material, with an interpretation of the prophecies and a study of the life and times of Isaiah.
Mj. Winter Quarter; 1907.
Professor W. R. Harper.

23. **Isaiah, chaps. 40–66.**—A critical reading of the material with a study of the prophecies as illustrating exilic and post-exilic conditions.
Mj. Spring Quarter; 1904, 1907.
Professor W. R. Harper.

24. **Jeremiah.**—Attention will be given to the political conditions in Judah's decline, and the waning of religious life as a background of Jeremiah's utterances; the book will be arranged and interpreted in chronological order.
Mj. Autumn Quarter, 1905; 3:00.
Professor Price.

26. **Ezekiel.**—Condition of the exiles; Babylonian government; Ezekiel's character; analysis and translation of selected sections.
Mj. Autumn Quarter, 1904; 3:00.
Professor Price.

28. **The Later Minor Prophets.**—Critical and exegetical study of the language, contents, and teachings of these prophets.
Mj. Spring Quarter, 1905.
Professor W. R. Harper.

30. **The Psalter.**—The formation of the Psalter; characteristics of the Psalms as to style and authorship; critical translation of selected Psalms; their classification and use.
Mj. Summer Quarter, 1904.
Professor Price.

32. **The Psalms.**—A study of selected Psalms from the point of view of their language, structure, contents, and date.
2Mj. Winter and Spring Quarters, 1905.
Professor W. R. Harper.

34. **Hebrew Legislative Codes.**—Comparative study of portions of these codes with reference to (*a*) their interrelations, (*b*) their style and vocabulary, (*c*) their contents and meaning.
Mj. Spring Quarter, 1904, 1907.
Professor W. R. Harper.

35. **The Book of Deuteronomy.**—A study of (*a*) the origin and contents of the Deuteronomic Code; (*b*) the causes and results of the reformation under Josiah, and an exegetical study of certain portions of Deuteronomy.
Mj. Winter Quarter, 1906.
Professor W. R. Harper.

36. **The Levitical Code.**—A critical reading and study of the book of Leviticus and related material with reference (*a*) to its origin and contents, (*b*) to the work of Ezra, (*c*) to the purpose and significance of the Code.
Mj. Spring Quarter, 1906.
Professor W. R. Harper.

38. **Prophecy, and the History of Prophecy.**—A study of prophecy upon the basis of a classification of the prophetic material according to (1) the historical periods, (2) the work of the prophet, (3) the principal ideas of prophecy.
Mj. Winter Quarter, 1905.
Professor W. R. Harper.

40. **Messianic Prophecy.**—A study in chronological order of the Messianic prophecies of the Old Testament. Professor Price.

42. **Hebrew Philosophy and Ethics.**—A study of the contents of Job, Proverbs, Ecclesiastes, and the later Psalms, including a study of Hebrew Philosophy in general. [This course is open only to those who are able to read Hebrew fluently.]
Mj. Winter Quarter, 1906.
Professor W. R. Harper.

44. **Job.**—A study of the literary form, the thought content, the linguistic peculiarities, and the chief teachings of the book.
Mj. Winter Quarter, 1905.
Professor Price.

46. **Proverbs.**—Reading and interpretation of selected portions, with a study of (*a*) the origin of the various collections, (*b*) the poetical form, (*c*) the linguistic characteristics.
Mj. Spring Quarter, 1906.
Professor W. R. Harper.

48. **The Form and Contents of Early Old Testament Traditions.**—(1) A study of the several documents of which the Hexateuch is composed; and (2) a comparison of the early Hebrew traditions with similar traditions of other peoples.
Mj. Winter Quarter, 1907.
Professor W. R. Harper.

54. **Seminar in Old Testament Theology.**

A. The Doctrine of God.
Mj. Winter Quarter, 1907.
PROFESSOR W. R. HARPER.

B. The Doctrine of Sin.
Mj. Winter Quarter, 1905.
PROFESSOR W. R. HARPER.

C. The Doctrine of Atonement.
Mj. Winter Quarter, 1906.
PROFESSOR W. R. HARPER.

B. English.

60. **Isaiah i–xxxix** (in English).—Arrangement in chronological order, analysis, and interpretation of the different prophecies.
M. First Term, Summer Quarter, 1904; 3:30.
ASSISTANT PROFESSOR WILLETT.

61. **Isaiah xl–lxvi** (in English).—In this course the effort will be made to master the contents of the chapters and to study the progress of the thought.
M. Second Term, Summer Quarter, 1904; 1:30.
ASSISTANT PROFESSOR WILLETT.

64. **The Psalter** (in English).
M. First Term, Summer Quarter, 1905; 9:00.
ASSISTANT PROFESSOR WILLETT.

66–68. **The Priestly Work in the Old Testament.**

66. *Priest Codes;* The Hebrew Laws, their form and contents, especially Deuteronomy and Leviticus.
¼ or ½Mj. Winter Quarter, 1906; Sun., 8:30.
PROFESSOR W. R. HARPER.

67. *Priest History,* especially the Books of Chronicles, Ezra, and Nehemiah.
PROFESSOR W. R. HARPER.

68. *Priest Psalms,* that is, the Psalms as they were used for worship.
¼ or ½Mj. Spring Quarter, 1906; Sun., 8:30.
PROFESSOR W. R. HARPER.

70. **Prophecy and the History of Prophecy.**—Same as Course 38, but conducted for undergraduate students who have no knowledge of Hebrew.
¼ or ½Mj. Spring Quarter, 1904; Winter and Spring Quarters, 1907; Sun., 8:30.
PROFESSOR W. R. HARPER.

72. **Hebrew Philosophy and Ethics.**—Same as Course 42, but conducted for undergraduate students who have no knowledge of Hebrew.
¼ or ½Mj. Winter and Spring Quarters, 1905; Sun., 8:30.
PROFESSOR W. R. HARPER.

74. **Biblical Apocalyptic.**—A study of apocalyptic in the Old Testament, with special reference to the Book of Daniel, and comparison of the extra-canonical apocalypses with the Book of Revelation.
Mj. Summer Quarter, 1905.
ASSISTANT PROFESSOR WILLETT.

3. INTRODUCTION, ARCHÆOLOGY, AND HISTORY.

80–82. **General Survey of Old Testament Literature and History.** — In these courses an attempt will be made to present under four divisions, namely: (1) the beginnings to the disruption of the kingdom, (2) the disruption of the kingdom to the times of Josiah, (3) from the times of Josiah to the times of Ezra, (4) from the times of Ezra to the times of the Maccabees, (*a*) the particular historical events with their relations to contemporaneous history, (*b*) the literary documents, (*c*) the social, industrial, and political data, (*d*) the facts concerning the various religious institutions, (*e*) the general progress of religious thought. These courses are intended to serve as an introduction to the various departments of Old Testament study, and are *required of every candidate for the degree of D.B.* who does not elect Hebrew. (Course 84 may be substituted for Course 80). Each course is an independent study and may be taken separately.

80. *Beginnings of Old Testament Literature and History,* including a study of Prophecy.
Mj. Winter Quarter, 1905, 1906, 1907; 11:00.
PROFESSOR W. R. HARPER.

81. *The Priestly Element in the Old Testament.*
Mj. Spring Quarter, 1905, 1907; 9:30.
PROFESSOR W. R. HARPER.

82. *The Wisdom Element in the Old Testament.*
Mj. Spring Quarter, 1904, 1906; 9:30.
PROFESSOR W. R. HARPER.

84. **The Origin, Growth, and Character of the Prophetic Books.**
A required course. See Courses 80–82.
Mj. Autumn Quarter, 1904; 3:00.
PROFESSOR PRICE.

86. **History of the Canon and Text of the Old Testament.**—A Seminar.
Mj. Winter Quarter, 1905; 3:00.
PROFESSOR PRICE.

88. **General Introduction to the Textual Criticism of the Old Testament.**
Mj. Autumn Quarter, 1905; 9:30.
PROFESSOR HIRSCH.

90. **Methodology.**—In this Seminar the aim will be (1) to define the various departments of Old Testament research; (2) to ascertain the relations of these departments to each other; (3) to specify the natural and logical order in which these departments should be taken up; and (4) to indicate the principles and methods which should control research in these departments. A Seminar. Mj. Winter Quarter, 1906.
PROFESSOR PRICE.

92. **History, Principles, and Methods of Old Testament Interpretation.**—A Seminar.
Mj. Winter Quarter, 1907.
PROFESSOR PRICE.

96. **Life in Old Testament Times.**—A study of the elements which made up the everyday social, commercial, political, and religious life of the Hebrews and their most influential neighbors.
Mj. Autumn Quarter, 1905.
PROFESSOR PRICE.

98. **Palestinian Geography and Archæology.**
Mj. Summer Quarter, 1905.
ASSISTANT PROFESSOR WILLETT.

100. **Palestinian Life and Government.**
Mj. Summer Quarter, 1906; 12:00.
ASSISTANT PROFESSOR WILLETT.

102. **Modern Discoveries and the Old Testament.**
Mj. Winter Quarter, 1907.
PROFESSOR PRICE.

104. **Egyptian Archæology and the Old Testament.**
ASSISTANT PROFESSOR BREASTED.

106. **Religions of the Semites.**—This course includes a rapid survey of the religions of Egypt, Babylonia, Assyria, and Western Asia, as well as of the life and teachings of Muhammed and the religious movement proceeding from him.
PROFESSOR GOODSPEED.

110. **Hebrew History to the Times of Josiah.**
Mj. Summer Quarter, 1904.
ASSISTANT PROFESSOR WILLETT.

113, 114. **History of the Hebrews.**—These two courses cover in successive steps the history of Israel from the beginning to the Maccabean age. Each course is, however, an independent study, and may be taken separately.

113. *From the Beginnings to Solomon.*
Mj. Autumn Quarter, 1904.
PROFESSOR GOODSPEED.

114. *From Solomon to Nehemiah.*
Mj. Spring Quarter, 1905.
PROFESSOR GOODSPEED.

115. **The Rise of the Jewish State.**—A special study of the documentary sources and the problems of the period from the beginning of the exile to the Maccabean age.
Mj. Autumn Quarter, 1904.
ASSISTANT PROFESSOR WILLETT.

116. **The History of Antiquity through the Persian Empire.** Mj. Autumn Quarter, 1904.
PROFESSOR GOODSPEED.

II. RABBINICAL LANGUAGES AND LITERATURE.

120. **General Introduction to Rabbinical Literature and Life.** Mj. Spring Quarter, 1904.
PROFESSOR HIRSCH.

122. **Mishnah.**—Reading and interpretation of selected Tracts of the Mishnah.
Mj. Spring Quarter, 1905.
PROFESSOR HIRSCH.

124. **Babylonian Talmud.**—Reading of easier (Haggadic) selections, with a view of studying the dialects grammatically and lexicographically.
M. Second Term, Spring Quarter, 1904; 11:00.
PROFESSOR HIRSCH.

126. **Babylonian Talmud:** (Advanced.)—Reading of Tract *Berakhoth,* or *Abhodah Zarah* (Babylonian) with Commentaries. Study of language and method. Mj. Autumn Quarter, 1905.
PROFESSOR HIRSCH.

128. **Jerusalem Talmud.**—Reading of some Tract or selected portions. Study of the lexicography and dialect will be the feature of this course.
M. Second Term, Spring Quarter, 1905; 11:00.
PROFESSOR HIRSCH.

130. **Halakkic Themes.**—Study from the sources, tracing the ritual practice to its final decision in the Codes. This is a research course for advanced students exclusively. A Seminar.
3Mj. Autumn Quarter, 1904.
Winter and Spring Quarters, 1905.
PROFESSOR HIRSCH.

132. **The Civil and Criminal Legislation of the Talmud.** Open to students without knowledge of Hebrew; and of interest for members of the classes in sociology and political science or comparative jurisprudence.
M. First Term, Spring Quarter, 1905.
PROFESSOR HIRSCH.

134. **Rabbinical Commentaries on Genesis or other Books of the Old Testament.**—The study of the terminology of the Hebrew Grammarians and their writings will be combined with this course.
Mj. Winter Quarter, 1906.
PROFESSOR HIRSCH.

136. **History of the Jewish Sects:** Pharisees, Sadducees, Essenes, Rabbinites, and Karaites.
M. First Term, Autumn Quarter, 1904.
PROFESSOR HIRSCH.

138. **Talmudic Analogies to the New Testament.**—A presentation of the correspondences of Rabbinical doctrine with the teachings of the New Testament, and of the life of the Jews during the New Testament century.
M. First Term, Spring Quarter, 1904.
PROFESSOR HIRSCH.

139. **Rabbinical Philosophy.**—A Seminar.
2Mj. Winter Quarter, 1905; 11:00–1:00.
Mj. Autumn Quarter, 1904; 12:00.
PROFESSOR HIRSCH.
Professor Hirsch will, upon occasion, give opportunities for the reading of Modern Hebrew.

III. ARAMAIC LANGUAGES AND LITERATURES.

140. **Biblical Aramaic.**—The elements of Aramaic, including a study of the Aramaic portions of the Books of Ezra and of Daniel.
Mj. Spring Quarter, 1905.
PROFESSOR R. F. HARPER.

142. **Targum.**—Selections from the Targum, with Grammar, Lexicography, and Methods of the Targumim.
M. Second Term, Autumn Quarter, 1905; 9:30.
PROFESSOR R. F. HARPER.

144. **Beginning Syriac,** including the material of Nestle's *Grammar*, and selections from the New Testament. Mj. Spring Quarter, 1905.
PROFESSOR R. F. HARPER.

146. **Advanced Syriac.**—Roediger, *Chrestomathia Syriaca;* Land, *Anecdota Syriaca.*
Mj. Spring Quarter, 1906.
PROFESSOR R. F. HARPER.

IV. ASSYRIAN LANGUAGE AND LITERATURE.

150. **Assyrian Language.**—A study of the Esarhaddon texts, and of (*a*) the grammatical principles of the language, (*b*) the more common cuneiform signs, (*c*) the use of the Assyriological material for lexicographical purposes.
Mj. Summer Quarter, 1904; 9:30.
Mj. Spring Quarter, 1905, 1904.
PROFESSOR R. F. HARPER.

152. **Early Assyrian Historical Inscriptions.**—Including (*a*) the critical interpretation of Tiglath-pileser I.; (*b*) a more rapid reading of the remaining inscriptions from before 745 B.C.
Mj. Spring Quarter, 1904; 11:00.
Mj. Autumn Quarter, 1905, 1904.
PROFESSOR R. F. HARPER.

154. **Later Assyrian Historical Inscriptions.**—Including (*a*) a critical interpretation of the Aššur-banipal Inscription, with (*b*) a more rapid reading of the remaining historical inscriptions from 745 B. C. to 626 B. C.
Mj. Winter Quarter, 1906.
PROFESSOR R. F. HARPER.

156. **Selected Assyrian Historical Inscriptions.**—With special reference to Assyrian Lexicography.
Mj. Autumn Quarter, 1906.
PROFESSOR R. F. HARPER.

158. **Babylonian Historical Inscriptions.**—Including (*a*) Nebuchadnezzar, East India House (I. Rawlinson, pl. 53–58=59–64); and (*b*) Neo-Babylonian Inscriptions (of Nebuchadnezzar and Nabonidus). Mj. Autumn Quarter, 1905.
PROFESSOR R. F. HARPER.

160. **Babylonian and Assyrian Contracts.** — Using Meissner, *Beiträge zum altbabylonischen Privatrecht;* Johns, *Assyrian Deeds and Documents;* Stevenson, *Assyrian and Babylonian Contracts;* Strassmaier, *Inschriften von Nabonidus.* Mj. Autumn Quarter, 1906.
PROFESSOR R. F. HARPER.

162. **Epistolary Literature.**—(*a*) Letters of the Hammurabi Period, using King, *The Letters and Inscriptions of Hammurabi;* (*b*) The Tel el-Amarna Letters, using *The Tel el-Amarna Tablets in the British Museum;* Bezold, *Oriental Diplomacy;* and Winckler, *Tel el-Amarna Letters;* (*c*) The Letters of the Sargon Period, using R. F. Harper, *Assyrian and Babylonian Letters.*
2Mj. Spring and Summer Quarters, 1904.
PROFESSOR R. F. HARPER.

164. **Assyrian Syllabaries and Mythological Inscriptions.**—Using King and Thompson, *Cuneiform*

Texts from the Babylonian Tablets, etc., in the British Museum. Autumn Quarter, 1907.
PROFESSOR R. F. HARPER.

166. **Babylonian Psalms, Prayers, and Addresses.**—Using Zimmern, *Babylonische Busspsalmen ;* King, *Babylonian Magic and Sorcery ;* and Knudtzon, *Assyrische Gebete an den Sonnengott.* Spring Quarter, 1905.
PROFESSOR R. F. HARPER.

168. **Religious Texts.**—The Šurpu and Maḳlû Series of Incantations. Using Zimmern, *Beiträge zur Kenntnis der Babylonischen Religion* and Tallqvist, *Die Assyrische Beschwörungsserie Maqlû.* Winter Quarter, 1905.
PROFESSOR R. F. HARPER.

170. **Astrological Literature.**—Using Thompson, *Reports of the Magicians and Astrologers of Nineveh and Babylon.*
Winter Quarter, 1905.
PROFESSOR R. F. HARPER.

172. **The Code of Hammurabi.**—*Seminar.*
Summer Quarter, 1904.
PROFESSOR R. F. HARPER.

174. **Earliest Unilingual** (so-called Sumerian) **Cuneiform Inscriptions.**—Using (*a*) Hilprecht's *Old Babylonian Inscriptions,* (*b*) de Sarzec's *Découvertes en Chaldée.* A Seminar. Mj.
PROFESSOR PRICE.

175. **The Susian Inscriptions.**—A reading and comparative study of the material discovered at Susa, and published in Scheil's *Mémoire.*
A Seminar. Mj.
PROFESSOR PRICE.

176. **Origin of the Semitic Civilization of Babylonia.** A study of the earliest elements of civilization in the Babylonian valley, and a comparison of these with those of the later Assyro-Babylonian times.
A Seminar. Mj. Winter Quarter, 1906.
PROFESSOR PRICE.

178. **The Old Testament and the Assyro-Babylonian Inscriptions.**—A review of the material in the inscriptions bearing on the Old Testament.
Prerequisites: *A knowledge of Hebrew and Assyrian.* PROFESSOR R. F. HARPER.

V. ARABIC LANGUAGE AND LITERATURE.

180. **Beginning Arabic.**—A study of easy narrative and of (*a*) the grammatical principles of the language, (*b*) the commonest vocabulary, and (*c*) the relation of the Arabic grammatically considered to the Hebrew.
Mj. Summer Quarter, 1904; 12:00.
PROFESSOR JEWETT.

182. **Selected Suras of the Quran.**—Critical translation and interpretation, with Arabic commentary. Mj. Spring Quarter, 1905; 3:00.
PROFESSOR JEWETT.

184. **Historical Prose Relative to the Early Period of Islam.**—Critical translation, with interpretation and study of the historical background.
Mj. Summer Quarter, 1904.
PROFESSOR JEWETT.

186. **Arabic Grammarians.**—Reading and study of selected portions from these writers.
Mj. Spring Quarter, 1904; 3:00.
PROFESSOR JEWETT.

188. **Ibn Hisham's Life of Mohammed.**—Reading and interpretation of selected portions.
Mj. Spring Quarter, 1904; 4:00.
PROFESSOR JEWETT.

190. **Arabic Treatises on Mohammedan Eschatology.**
Mj. Summer Quarter, 1905; 3:00.
PROFESSOR JEWETT.

192. **Arabic Rhymed Prose.**
Mj. Spring Quarter, 1905.
PROFESSOR JEWETT.

194. **History of the Crusades.**—Reading of selections from Arabic sources.
Mj. Spring Quarter, 1905.
PROFESSOR JEWETT.

196. **Philosophical Literature of the Arabians.**—Reading, in the original, of some philosophical treatise, and a study of the philosophical terminology of the Arabians.
Mj. Winter Quarter, 1906.
PROFESSOR HIRSCH.

198. **Arabic Literature of the Jews.**—Reading of selections from Hirschfeld's *Chrestomathy.*
Mj. Autumn Quarter, 1904.
PROFESSOR HIRSCH.

200. **Life of Mohammed,** with a critical examination of his main teachings.
Mj. Spring Quarter, 1905.
PROFESSOR JEWETT.

202. **The Qurân in English,** with a critical study of its principal doctrines.
Mj. Summer Quarter, 1904.
PROFESSOR JEWETT.

204. **The Spread of Islam,** being a study of the progress of Mohammedanism, with special reference to the Islam of today.
Mj. Summer Quarter, 1905.
PROFESSOR JEWETT.

VI. EGYPTIAN LANGUAGE AND LITERATURE.

210. **Beginners' Hieroglyphic.**—Including the acquisition of the commonest signs and the grammatical principles of the language of the classic period. Mj. Summer Quarter, 1904.
ASSOCIATE PROFESSOR BREASTED.

212. **Translation of Egyptian Texts** from the classic period. Mj. Autumn Quarter, 1904.
ASSOCIATE PROFESSOR BREASTED.

214. **Late Egyptian.**—The language of the new empire (XVIIIth–XXth Dynasties). (Possible only after pursuing the two preceding courses.)
Mj. Winter Quarter, 1905.
ASSOCIATE PROFESSOR BREASTED.

216. **Egyptian Literature.**—Rapid reading of the best literary products of Egypt in annals, narrative and poetry; largely in the original, but with the use of all other materials in translation.
Mj. Autumn Quarter, 1904.
ASSOCIATE PROFESSOR BREASTED.

218. **Pyramid Texts.**—A study of the earliest religious texts in the world; with constant comparison with later religious compositions, especially the Book of the Dead.
Mj. Summer Quarter, 1904.
ASSOCIATE PROFESSOR BREASTED.

220. **Egyptian Texts of the Græco-Roman Period.**—Including a study of the bilingual inscription of Rosetta; the Decree of Canopus and the Stele of Alexander II.
M. Second Term, Winter Quarter, 1905.
ASSOCIATE PROFESSOR BREASTED.

222. **Coptic Language.**—Elementary study of the Sahidic dialect, using Steindorff's *Chrestomathie.* Mj. Autumn Quarter, 1904.
ASSOCIATE PROFESSOR BREASTED.

224. **Coptic Language. Sahidic Dialect.**—Translation from the version of the Prophets, and the New Testament, and the tracing of all possible etymologies. Mj. Spring Quarter, 1906.
ASSOCIATE PROFESSOR BREASTED.

226. **History of Egypt.**—Giving special attention to the religion, literature, art, and science, and their influence upon subsequent civilization; the condition of Egypt at the probable period of the Israelitish sojourn.
Mj. Summer Quarter, 1904.
ASSOCIATE PROFESSOR BREASTED.

228. **Europe and Asia in the Egyptian Monuments.**—A study of the civilization of the Mediterranean basin in the earliest times; the beginnings of European and Asiatic history, according to the monuments in the Nile valley.
M. First Term, Winter Quarter, 1905
ASSOCIATE PROFESSOR BREASTED.

230. **Egyptian Archæology.**—A study of the Nile valley civilization, and its contributions to later Europe as exhibited in its surviving material remains. Mj. Winter Quarter, 1905.
ASSOCIATE PROFESSOR BREASTED.

232. **Egyptian Life and Antiquities.** Mj.
ASSOCIATE PROFESSOR BREASTED.

234. **History of Oriental Art from the Earliest Times to the Conquests of Alexander.**
ASSOCIATE PROFESSOR BREASTED.

VII. OTHER SEMITIC LANGUAGES AND COMPARATIVE WORK.

240. **Samaritan.**—Using Petermann, *Grammatica Samaritana.*
ASSISTANT PROFESSOR WILLETT.

242. **Phœnician.**—Using Schröder, *Die Phönizische Sprache.* Inscriptions and Grammar.
ASSISTANT PROFESSOR WILLETT.

244. **Mandaic.**—Noeldeke, *Mandaeische Grammatik* Reading from the Sidrâ Rabbâ.
PROFESSOR HIRSCH.

246. **Sabæan and Himyaritic Inscriptions.**
PROFESSOR J. R. JEWETT.

248. **Beginning Ethiopic.**—Using Dillmann, *Chrestomathia Ethiopica* and Prætorius, *Grammatica Æthiopica.* Mj. Spring Quarter, 1904.
DR. E. J. GOODSPEED.

250. **Advanced Ethiopic.**—Using J. Bachmann, *Inedita Æthiopica,* and Charles, *Book of Jubilees.*
M. Spring Quarter, 1905.
PROFESSOR HIRSCH.

252. **North Semitic Inscriptions**, including a study of the Moabite stone, the Siloam inscription, the Sinjirli inscriptions, and others, from the point of view of their contribution to a knowledge of Hebrew, and to a better understanding of Old Testament history and literature.
Mj. Winter Quarter, 1905.
DR. SMITH.

254. **Semitic Seminar I.**—Comparative Semitic Phonology. Mj. Spring Quarter, 1906.
PROFESSOR W. R. HARPER.

256. **Semitic Seminar II.**—Comparative Semitic Etymology. Mj. Spring Quarter, 1904, 1907.
PROFESSOR W. R. HARPER.

258. **Semitic Seminar III.** Comparative Semitic Syntax. Mj. Spring Quarter, 1905.
PROFESSOR W. R. HARPER.

260. **Comparative Semitic Lexicography.**—A Seminar. Prerequisites: *Hebrew, Aramaic, Assyrian and Arabic.* Mj. Winter Quarter, 1907.
PROFESSOR R. F. HARPER.

IX. THE DEPARTMENT OF BIBLICAL AND PATRISTIC GREEK.

OFFICERS OF INSTRUCTION.

ERNEST DEWITT BURTON, D.D., *Professor and Head of the Department of New Testament Literature and Interpretation.*

SHAILER MATHEWS, A.M., D.D., *Professor of New Testament History and Interpretation.*

CLYDE WEBER VOTAW, D.B., PH.D., *Assistant Professor of New Testament Literature.*

EDGAR JOHNSON GOODSPEED, PH.D., *Instructor in Biblical and Patristic Greek; Assistant Director of Haskell Oriental Museum.*

FELLOWS.

1904–1905.

LESLIE MOULTHROP BURWELL, A.B. WILLIAM DUNCAN FERGUSON, A.B., D.B.
HENRY BURTON SHARMAN, S.B.

INTRODUCTORY.

Lines of Study.—The aim of this department is to provide instruction in the following lines of investigation:

1. The Greek of the New Testament, and of other Greek literature closely related linguistically to the New Testament, for students who already have a knowledge of classical Greek.
2. The documents of the New Testament text, and the theory and praxis of textual criticism as applied to them.
3. Historical Introduction to the study of the New Testament, including:
   a) The History of New Testament Times in Palestine, and the Græco-Roman World.
   b) The History of the Apostolic Age of the Church.
   c) Special Introductions to the several New Testament books.
4. The Interpretation of the New Testament including:
   a) Principles of interpretation, especially as applied to the New Testament. Instruction in these principles is given only in connection with the actual work of interpretation on the part of the student, and is practical rather than theoretical.
   b) Interpretation of the various New Testament books in accordance with these principles.
5. The Life of Jesus Christ.
6. The History of the New Testament, including (*a*) the history of manuscripts and versions, (*b*) the history of the canon, (*c*) the history of interpretation, (*d*) the history of criticism.
7. Early Christian literature (to A.D. 325), studied linguistically, exegetically, and historically.

General Aim.—The work of the department is planned with reference to the needs of three classes of students.

1. Those who are preparing for the Christian ministry and expecting to be pastors.
2. Those who are preparing to be teachers of the Bible or of the biblical languages, or instructors in other departments of theological study.
3. Those who seek a knowledge of the Bible as a part of a liberal education, or as preparation for general Christian service.

Requirements for Degrees.—All candidates for degrees who present Biblical and Patristic Greek as one of the subjects are required to take Courses 1, 10, 15, and 25.

Students who make Biblical and Patristic Greek the secondary subject for the Doctor's degree or the principal subject for the Master's degree must complete work equivalent to not less than nine Majors, including the four majors named above.

Students who make Biblical Greek their principal subject for the Doctor's degree must complete work equivalent to not less than nineteen Majors including the four Majors named above.

For more specific statement of requirements, see the Programme of the Department or the *Bulletin of Information of the Divinity School.*

The New Testament Club holds fortnightly meetings for the review of current literature and the presentation of papers on subjects connected with New Testament study.

Including work in their own departmental library, in other departmental libraries accessible to students and instructors, and in the General Library of the University, the department possesses a very large and valuable library outfit. The leading German, English, and American journals devoted to biblical criticism and interpretation are also accessible to the student.

COURSES OF INSTRUCTION.

M = Minor course = a single course for six weeks. DM = Double Minor course = a double course (two hours daily) for six weeks. Mj = Major course = a single course for twelve weeks. DMj = Double Major course = a double course for twelve weeks.

1. **New Testament Greek.** — A purely linguistic course, preparatory to courses in interpretation. An examination will be accepted in lieu of it.

Mj. Summer Quarter, 1904; 9:00.
ASSISTANT PROFESSOR VOTAW.

Mj. Winter Quarter, 1904; 9:30.
DR. GOODSPEED.

3. **New Testament Syntax.** — Inductive study of the Syntax of the noun, pronoun, and article.

PROFESSOR BURTON.

4. **Rapid Translation and Interpretation** of portions of the Greek text of the New Testament.

M. First Term, Summer Quarter, 1904; 11:00.
DR. GOODSPEED.

6. **Greek Palæography.**—The palæography and interpretation of Greek documentary papyri.

DR. GOODSPEED.

8. **Textual Criticism of the New Testament.**—Material and principles of criticism, with practical exercises from *facsimiles* and digests of readings. Mj. Spring Quarter, 1904; 8:30.
DR. GOODSPEED.

10. **History of New Testament Times in Palestine.** Political history of the Jewish nation from 175 B. C. to 70 A. D. Outline of New Testament History. Mj. Autumn Quarter, 1904; 9:30.
PROFESSOR MATHEWS.

Open to members of the Senior Colleges.

11. **History of New Testament Times in the Græco-Roman World.** Mj.
PROFESSOR MATHEWS.

12. **Social and Religious History of Palestine in New Testament Times.**
PROFESSOR MATHEWS.

13. **History of the Apostolic Age of the Christian Church.** Mj. Spring Quarter, 1904; 9:30.
PROFESSOR MATHEWS.

Mj. Summer Quarter, 1904; 2:00.
ASSISTANT PROFESSOR VOTAW.

15. **General Survey of the New Testament Literature.** Occasion, purpose, and content of the several books of the New Testament.

Mj. Spring Quarter; 1904; 12:00.
PROFESSOR BURTON.

16. **Introduction to the Synoptic Gospels.**— Detailed examination of the resemblances and differences of the first three gospels as bearing upon the question of the sources and authorship of each. Mj.
DR. GOODSPEED.

17. **Sources of the Life of Christ.**—Critical introduction to the four gospels.
PROFESSOR MATHEWS.

19. **The Life of Christ.**—Historical study on the basis of the gospel records.
¼ or ½ Mj. Summer Quarter, 1904; Sun. 8:30.
PROFESSOR MATHEWS.

20A. **The Parables of Jesus.**—Their characteristics; principles of interpretation; interpretation of a limited number. PROFESSOR MATHEWS.

20B. **The Miracles of Jesus.**—Their characteristics, purpose, and historicity.

24. **Life of the Apostle Paul, and Introduction to the Pauline Epistles.**
¾ or 1½Mj. Autumn Quarter, 1903 (19A), Winter (19B) and Spring (19C) Quarters, 1904; Sun. 8:30.
PROFESSORS BURTON AND MATHEWS.

25. **The Gospel of Matthew.**—Study of the book with reference to authorship, structure, and specific purpose; translation of Greek text; inductive study of leading words; interpretation of chaps. 1–7; lectures on grammatical interpretation. Mj. Autumn Quarter, 1904; 9:30.
PROFESSOR BURTON.

Prerequisite: *Courses 1 and 10.*

25A. **Jesus' Sermon on the Mount.** A study of the historical features of the discourse as recorded in Matt., chaps. 5–7, and Luke 6:20–49; the theme of the sermon and its development; the interpretation of the teaching of Jesus herein contained, with special reference to present-day religious and ethical thought.
ASSISTANT PROFESSOR VOTAW.

27. **The Gospel of Luke.**—Study of the Greek text, with special attention to its use by preachers as a basis for Christian teaching.
Mj. Spring Quarter, 1904; 8:30.
M. First Term, Summer Quarter, 1904; 9:30.
PROFESSOR MATHEWS.

28. **The Gospel of John.**—Introduction; outline of argument; inductive study of the leading terms of the gospel, intended to lay the foundation of an inductive study of Johannine theology; detailed exegesis of selected passages. Mj.
PROFESSOR BURTON.

Prerequisite: *The required courses.*

29. **The Book of Acts.**—Introduction; study of the Greek text from a linguistic and historical point of view. Mj.
ASSISTANT PROFESSOR VOTAW.

30. **The Epistles to the Thessalonians.**—See 32.
M. First Term, Summer Quarter, 1904; 2:00.
DR. GOODSPEED.

31. **The Epistle to the Galatians.**—Introduction; analysis of the letter; interpretation of selected passages. PROFESSOR BURTON.

32. **Paul's Corinthian Epistles.**—Historical situation; analysis of contents; contribution of the epistles to our knowledge of primitive Christianity, and their practical value for the Christianity of today. Mj.
ASSISTANT PROFESSOR VOTAW.

33. **The Epistle to the Romans.**—Introduction; analysis of argument; translation of Greek text; inductive study of the leading terms of the epistle, intended to lay the foundation of an inductive study of the Pauline theology.
PROFESSOR BURTON.

Prerequisite: *The required courses.*

34. **The Epistle to the Colossians.**—See 32.
M. Second Term, Summer Quarter, 1904; 10:30
PROFESSOR MATHEWS.

35. **The Epistle to the Ephesians.**—See 32.
Mj.
PROFESSOR MATHEWS.

36. **The Epistle to the Philippians.**—See 32.
Mj.
PROFESSOR BURTON.

40. **New Testament Quotations from the Old Testament.**—Part I. Quotations in the synoptic gospels. On the basis of the Hebrew Old Testament the Septuagint translation and the Greek New Testament.
M. Second Term, Summer Quarter, 1904; 3:00.
PROFESSOR BURTON.

Prerequisite: *Course 1, and a knowledge of Hebrew.*

41. **New Testament Quotations from the Old Testament.**—Part II. Quotations in Acts and the epistles. (See under Course 40.)
ASSISTANT PROFESSOR VOTAW.

Prerequisite: *Course 1, and a knowledge of Hebrew.*

44. **Rapid Reading in the Septuagint.**—Translation of a large portion of the Greek Old Testament; study of the characteristics of Septuagint Greek, and its relation to the Greek of the New Testament, the origin and history of the Septuagint, and other Greek versions of the Old Testament.
Mj.
DR. GOODSPEED.

46. **Jewish Literature of New Testament Times.** A study of the Jewish writings, historical, psalmodic, philosophical, and apocalyptic, of the years 175 B. C. to 135 A. D.
ASSISTANT PROFESSOR VOTAW.

48. **The Writings of Philo.**—Biographical introduction; reading of selected portions of his works; discussion of his mode of interpretation, and of his philosophical ideas.
ASSISTANT PROFESSOR VOTAW.

49. **The Writings of Josephus.**—Biographical introduction. Translation of the work against Apion, and portions of War of the Jews and the Antiquities. ASSISTANT PROFESSOR VOTAW.

53. **The Apostolic Fathers.**—Brief introductions; translation of the Greek text; lectures and essays on the theology of the several writers.
Mj. Spring Quarter, 1904; 11:00.
DR. GOODSPEED.

54. **Reading and Studies in the Early Apologists.**—A Seminar.
M. First Term, Summer Quarter, 1904; 3:00.
DR. GOODSPEED.

55. **Christian Literature to Eusebius.**—History of Ante-Nicene Christian Literature, with reading of assigned portions partly in original, partly in translation. Mj.
DR. GOODSPEED.

57. **The Formation of the New Testament Canon** and its history in the Ante-Nicene Period.
Mj.
DR. GOODSPEED.

59. **History of New Testament Criticism in the Nineteenth Century.**—A Seminar.
PROFESSOR MATHEWS.

60. **The History of the Interpretation of the New Testament.** Mj.
PROFESSOR MATHEWS.

61. **Theology of the Synoptic Gospels.**—An inductive study of the teachings (*a*) of John the Baptist, (*b*) of Jesus, (*c*) of the several evangelists; papers by the class.
Mj.
PROFESSOR BURTON.

Prerequisite: *The required courses, and 25 (or 27).*

62. **Theology of the Gospel and First Epistle of John.** An inductive study of the teachings (*a*) of John the Baptist, (*b*) of Jesus, as these appear in the fourth gospel, and (*c*) of the evangelist; papers by the class.
Mj. Spring Quarter, 1904; Tues. and Fri., 4:00–6:00. PROFESSOR BURTON.

Prerequisite: *The required courses, and 28.*

63. **The Teaching of Jesus.**— Characteristics of the records of the teaching, arrangement of the material under specific topics with reference to their organic relation, and an interpretative study of the teaching.
Mj.
ASSISTANT PROFESSOR VOTAW.

Open to members of the Graduate Schools and of the Senior Colleges.

63A. **The Ethical Teachings of Jesus,** in relation to the ethics of the Old Testament and of the Pharisees. PROFESSOR BURTON.

63B. **The Religious Teachings of Jesus** on the basis of the gospel records.
M. Second Term, Summer Quarter, 1904; 9:30.
PROFESSOR MATHEWS.

64. **The Social Teaching of Jesus.**—The teaching of Jesus concerning society, the state, the family, wealth, and other social institutions.
PROFESSOR MATHEWS.

65. **The Social Teaching of the Apostles.** M.
PROFESSOR MATHEWS.

65A. **The Messianic Hope in the New Testament.**
M. First Term, Summer Quarter, 1904; 9:30.
PROFESSOR MATHEWS.

66. **Theology of the Second Group of the Epistles of Paul.**—An inductive study of the teachings of the apostle in his letters to the Galatians, Corinthians, and Romans. Mj.
PROFESSOR BURTON.

Prerequisite: *The required courses, and 31, 32, 33, or 36.*

67. **The Teachings of the Apostle Paul.**—An outline of the main features of the apostle's doctrine and ethics. PROFESSOR MATHEWS.

68. **The Ethical Teachings of the New Testament.** Mj. 11:00. PROFESSOR MATHEWS.

69. **The Doctrine of Atonement in the New Testament.**—The doctrine of the basis of forgiveness and justification in the several writers and groups of books in the New Testament. M. Second Term, Summer Quarter, 1904; 2:00. PROFESSOR BURTON.

70. **Lexicographical Seminar,** for the historical study of important New Testament words. PROFESSOR BURTON.

Prerequisite: *25, or another exegetical course in New Testament.*

X. THE DEPARTMENT OF SANSKRIT AND INDO-EUROPEAN COMPARATIVE PHILOLOGY.

OFFICERS OF INSTRUCTION.

CARL DARLING BUCK, PH.D., *Professor and Head of the Department of Sanskrit and Indo-European Comparative Philology.*

JOHN JACOB MEYER, PH.D., *Associate in Sanskrit and Indo-European Comparative Philology.*

XA. GENERAL COMPARATIVE PHILOLOGY.

GHEN-ICHIRO YOSHIOKA, PH.B., *Docent in Japanese.*

FELLOWS.

1904-1905.

RAY BATCHELDER NELSON, A.B.

GHEN-ICHIRO YOSHIOKA, PH.B.

INTRODUCTORY.

The aim of the department will be:

1. To furnish the requisite training for those intending to make Indo-European Philology their chief work. Instruction will be given in the most important branches of the family by means of courses which combine a practical introduction to the respective languages with lectures and exercises on their comparative grammar. Such courses are offered by this department in Sanskrit, Avestan, Old Persian, Lithuanian, and Old Bulgarian, and by the English and German Departments in Old English, Gothic, and Old High German. In Greek and Latin, of which a practical knowledge is presupposed, the work will be entirely grammatical, consisting of lectures on the comparative grammar of Greek and Latin, and exercises in the reading of Greek and Italic dialect inscriptions. For work in the comparative syntax of Greek and Latin the programme of the Latin Department is to be consulted. In the Seminar or Research course weekly papers are expected from the members.

2. To provide for a systematic course of study in Indo-Aryan Philology. The courses offered are designed to provide for the needs alike of students who turn to Sanskrit for the better understanding of Indo-European language and civilization and of those who are interested especially in the contributions of India to religious and philosophical thought. In the elementary course (Autumn Quarter, also given in Summer Quarter) the reading is begun after about six lessons on the more important paradigms. In connection with the reading, the system of sounds and inflections is studied more carefully and in the light of comparative grammar. In the second quarter the reading of classical texts is continued, accompanied by exercises in Sanskrit composition. The third course serves as an introduction to the Vedic language and literature, and is preparatory to the more advanced work of the Vedic seminar. This is devoted to the examination of questions arising in the interpretation of hymns of the Rig-Veda and Atharva-Veda. Advanced courses in the later literature are offered every year, the departments chosen varying in successive years. In this way provision is made for a consecutive course of study extending over three years. Once a week during three quarters, a class meets for more rapid reading of selections from the Epic and of narrative portions of the Brāhmanas.

3. To act as an auxiliary to the Greek and Latin Departments by furnishing instruction in the comparative grammar of the classical languages and in the Greek and Italic dialects. Courses 1 and 2 will also be adapted to students in the German and English Departments who are engaged chiefly in linguistic work.

4. To provide a brief introductory course, such as will be of value to the general student.

The work of the Summer Quarter is intended to meet the wants of teachers of Greek and Latin who desire an insight into the methods of comparative grammar and an elementary knowledge of Sanskrit.

For information in regard to library facilities, see pp. 12, 13 of this BULLETIN.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.*

M=Minor course=a single course for six weeks. Mj=Major course=a single course for twelve weeks.

1. **General Introduction to the Study of Indo-European Philology.**—Brief history of the science. Principles and methods. The grouping of the Indo-European languages; the several branches, their ethnography and earliest history, their most important linguistic remains, the chief authorities in each field. Linguistic palæontology, summary of results of investigations upon the primitive civilization of the Indo-Europeans. Selected topics in the Phonology or Morphology of the Indo-European Languages. Mj. Autumn Quarter; 11:00. PROFESSOR BUCK.

2. **Outlines of the Comparative Grammar of Greek and Latin.** Mj. Winter Quarter; 12:00. PROFESSOR BUCK.

3. **Exercises in Greek and Latin Historical Grammar Based on the Study of Selected Inscriptions.**—The time is equally divided between Greek and Latin, and either half can be taken separately as a Minor.
Mj. Spring Quarter; Tues., Fri., 4:00–6:00. PROFESSOR BUCK.

4. **Historical Latin Grammar.**—Lectures and exercises.
M. First Term, Summer Quarter; 10:30. PROFESSOR BUCK.

5. **Historical Greek Grammar.** —Lectures and exercises. PROFESSOR BUCK.
[Not to be given in 1904–5.]

6. **Italic Dialects.**—Buck's *Grammar of Oscan and Umbrian* will be used.
M. First Term, Summer Quarter; 11:30.
Mj. Spring Quarter; 1906.
PROFESSOR BUCK.

7. **Greek Dialects.**—Solmsen's *Inscriptiones Graecae ad inlustrandas dialectos selectae* will be used.
Mj. Spring Quarter; 12:00. PROFESSOR BUCK.

10. **Sanskrit.**— Elementary Course. Whitney's *Sanskrit Grammar* and Lanman's *Sanskrit Reader* are used. Mj. Summer Quarter; 1:30. DR. MEYER.
Mj. Autumn Quarter; 11:00. PROFESSOR BUCK.

11. **Sanskrit.**—Reading of classical texts from Lanman's *Reader* and exercises in Sanskrit composition. Mj. Winter Quarter; 2:00. DR. MEYER.

12. **Introduction to Vedic Study.**— Lanman's *Reader* and Hillebrandt's *Vedachrestomathie* will be used. Mj. Spring Quarter; 2:00.
Mj. Summer Quarter; 2:30. DR. MEYER.
[Not to be given in 1904–5.]

13. **Readings in the Upanishads,** with a consideration of the philosophical hymns and the speculations of the Brāhmanas. DR. MEYER.
[Not to be given in 1904–5.]

14. **Kālidāsa's** *Çakuntalā*, or *Vikramorvaçī*. with an introduction to scenic Prākrit. DR. MEYER.
[Not to be given in 1904–5.]

15. **Kālidāsa's** *Meghadūta* and *Ṛtusamhāra*. DR. MEYER.
[Not to be given in 1904–5.]

16. **Selections from the Gṛhyasūtras.** DR. MEYER.
[Not to be given in 1904–5.]

* All courses are Graduate courses; but 1-7, 10-12 are also open to students of the Senior Colleges.

17. **Pāli.**—For beginners. Reading of Ellwell's *Nine Jātakas*, followed by the *Dhammapada*.

Mj. Winter Quarter; 3:00.

DR. MEYER.

Prerequisite: *Sanskrit*.

20. **Avestan** (and **Old Persian**).—Introduction to Iranian Philology. Jackson's *Avesta Grammar* and *Avesta Reader* will be used. After completing the selections in the Reader, either additional texts from the Avesta (Geldner's edition) or the Old Persian inscriptions will be taken up.

PROFESSOR BUCK.

Prerequisite: *Sanskrit*.

[Not to be given in 1904–5.]

21. **Lithuanian and Old Bulgarian.**—Introduction to Balto-Slavic Philology. Wiedemann's *Handbuch der litauischen Sprache* and Leskien's *Handbuch der altbulgarischen Sprache* will be used. PROFESSOR BUCK.

[Not to be given in 1904–5.]

25. **Seminar.**—Problems in Indo-European Phonology and Morphology. Written papers will be expected each week.

Mj. Winter Quarter; Thurs., 4:00–6:00.

PROFESSOR BUCK.

26. **Vedic Seminar.**—Interpretation of Selected Hymns from the Rig-Veda. Mj. Spring Quarter.

Hours to be arranged with the instructor.

DR. MEYER.

27, 28. **Elementary Russian.**

2Mj. Autumn and Winter Quarters.

MR. ————.

X *A*. GENERAL COMPARATIVE PHILOLOGY.

30, 31, 32. **Elementary Japanese.**—The aim of this course is a practical one. Elementary grammar and pronunciation are studies in connection with the reading of easy stories and conversation with regard to their contents. Chamberlain's *Japanese Grammar* and *Japanese Reader* are used as text-books.

3Mj. Autumn, Winter, and Spring Quarters.

MR. G. YOSHIOKA.

33. **Introduction to the Study of the Chinese Idiograph, or character.** Mj. Summer Quarter

MR. YOSHIOKA.

The Chinese system of writing, structure of the characters in their primary forms. Acquisition of the simplest terms and phrases found in the *Lun-yu*, or "Confucian Analects," as a basis for the study of the Japanese and the Chinese literature.

This course does not include oral Chinese.

[Not to be given in 1904–5.]

XI. THE DEPARTMENT OF THE GREEK LANGUAGE AND LITERATURE.

OFFICERS OF INSTRUCTION.

PAUL SHOREY, PH.D., *Professor and Head of the Department of the Greek Language and Literature.*
FRANK BIGELOW TARBELL, PH.D., *Professor of Classical Archæology.*
EDWARD CAPPS, PH.D., *Professor of Greek.*
CLARENCE FASSETT CASTLE, PH.D., *Associate Professor of Greek.*
WILLIAM BISHOP OWEN, PH.D., *Associate Professor of Greek.*
ROBERT JOHN BONNER, A.B., *Assistant in Greek.*
WILLIAM BENSON, A.B., *Assistant in Greek.*
WILLIAM EUGENE MOFFATT, A.B., *Assistant in Greek* (Summer Quarter, 1904).

CLARENCE FRISBEE ROSS, A.M., BRADLEY *Professor of Latin, Allegheny College* (Summer Quarter, 1904).
THEODORE C. BURGESS, PH.D., *Assistant Professor of Greek and Latin, Bradley Polytechnic Institute* (Summer Quarter, 1904).

FELLOWS.

1904–1905.

ALEXANDER CALHOUN, A.M.
DAVID A. COVINGTON, A.B.
SAMUEL JAMES PEASE, A.B.
KELLEY REES, A.B.

INTRODUCTORY.

Ability to read Greek with accuracy and ease, and intelligent enjoyment of the masterpieces of Greek literature are the indispensable prerequisites of all higher Greek scholarship, and the sole justification of the place assigned to Greek in the undergraduate curriculum. All other interests that may attach to the study are subordinate to these, and their pursuit is positively harmful if it prematurely distracts the student's attention from his main purpose.

In the work of the Junior Colleges the department will keep this principle steadily in view, and will endeavor to teach a practical knowledge of Greek vocabulary and idiom, and to impart literary and historic culture by means of rapid *viva voce* translation and interpretation of the simpler masterpieces of the literature. No countenance will be given at this stage of the work to the arbitrary and misleading distinction between "literary" and "linguistic" study. The literary interpretation of the text should always be carried far enough to insure intelligent appreciation of the meaning and beauty of what is read. The linguistic interpretation must always bring out by exact translation or otherwise the structure of every sentence, and must direct attention upon novelties or peculiarities of vocabulary and idiom. Anything more than this, whether in the form of unseasonable antiquarian erudition or the metaphysics of syntax, is wasteful pedantry at this stage of the student's progress.

The authors especially studied in the Junior Colleges will be Homer, whom every undergraduate may, if he choose, learn to read with pleasure; Xenophon's *Memorabilia* and *Hellenica*, with two or three of the minor Platonic dialogues, a few of the easier Greek orations, selections from Herodotus and Thucydides, and several Greek plays.

In the Senior Colleges the chief stress will still be laid on reading and exegesis, but the range of authors presented to students' choice will be enlarged to include Pindar and Bacchylides, further study of the Drama, Theocritus and the Greek lyric poets, the Attic orators, Thucydides, Aristotle, and Plato.

There will also be provided a number of special courses on archæology, epigraphy, private and public antiquities, and literary history to assist the student in co-ordinating the results of his reading, either for general culture or by way of preparation for the more special studies of the Graduate school.

The ultimate aim of the graduate work is to train finished scholars, teachers, and investigators. Great pains will be taken, however, to avoid the too common error of hurrying into investigation students who lack the indispensable preliminary knowledge of the Greek language and literature. The department will make a distinct effort to provide for the needs of students of this type. The opportunities of the Senior Colleges will be open to them, but they will not be limited to working with students less mature than themselves in everything except knowledge of Greek vocables; suitable graduate courses are provided for them, and they will also be admitted to the seminar as listeners and, to the extent of their ability, as active participants, on condition that they at the same time pursue special auxiliary courses of reading organized for them in connection with the seminar.

Candidates for the Doctor's degree in Greek (and where Greek is the major subject Latin must be offered as the minor) will be expected to show, in addition to an intimate knowledge of the principles of the two languages and facility in using them, a familiarity with Greek and Roman history, the history of Greek and Latin Literature, and a special knowledge of a chosen author or authors in each language. When Greek is taken as the major subject, special stress will be laid on range and accuracy of reading, and on the quality of the dissertation, which must be printed. Students, however, will be allowed the greatest latitude in selecting a particular branch of Greek studies in which to specialize, and good special work in any department, *e. g.*, Archæology or Comparative Philology, will receive full credit.

For information in regard to library facilities, and the Philological Society, see pp. 12, 13 of this BULLETIN.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

17. **Greek History from the Sources.**—A critical study of a selected period of Greek history.
Mj. Winter Quarter; 11:00.
ASSOCIATE PROFESSOR OWEN.

20. **Æschylus, the Agamemnon.**—Special attention will be given to the reading of the lyric meters.
M. First Term, Summer Quarter; 1:30.
PROFESSOR SHOREY.

23. **Sophocles.**—Selected plays will be carefully interpreted with the class, especial attention being given to the language and style of Sophocles, to metrical drill, and to the criticism of the author as a dramatic poet.

Mj. Summer Quarter.
ASSOCIATE PROFESSOR CASTLE.

[Not to be given in 1904–5.]

24. **Aristotle : *Politics.***—An introduction to the political and economic writings of Aristotle, and to the study of the social and political institutions of Greece. The text will be interpreted mainly by the instructor and topics will be assigned for reports. Mj. Autumn Quarter; 8:30.
PROFESSOR CAPPS.

25. **Aristotle : *Constitution of Athens.*** — Studies in Athenian Constitutional History and Political Institutions based primarily upon this text, with extensive collateral readings in the other sources. Reports on assigned topics will be expected of members of the class, who will also be encouraged to undertake original studies in this field.

Mj. Winter Quarter; 8:30.
PROFESSOR CAPPS.

27. **Pindar and Bacchylides.**

Mj. Spring Quarter; 3:00.
PROFESSOR SHOREY.

28. **Æschylus.** Mj. Winter Quarter.
PROFESSOR SHOREY.

[Not to be given in 1904–5.]

29. **Plato: *The Republic.*** — Rapid reading of the *Republic.* Reports on related dialogues. Lectures on the Platonic philosophy with special reference to its influence on subsequent thought. This course may be taken by students of philosophy, who will be excused from active participation in the work of translation.

Spring Quarter.
PROFESSOR SHOREY.

[Not to be given in 1904–5.]

30. **The Lyric Poets and Theocritus.**—Fragments of the early elegiac and melic poets will be read during the first term, with lectures on the history of lyric poetry in Greece. Questions of meter and dialect will receive appropriate treatment. Spring Quarter; 3:00.
PROFESSOR CAPPS.

[Not be given in 1904–5.]

32. **Herodotus.**—Rapid reading of a large amount of text. Mj. Winter Quarter.

[Not to be given in 1904–5.]

34. **Greek Orators.**—Rapid reading of selections from predecessors of Demosthenes, to illustrate the development of Attic eloquence.

Mj. Autumn Quarter.
ASSOCIATE PROFESSOR CASTLE.

[Not to be given in 1904–5.]

36. **Lectures on Greek Literature** (Poetry).

Mj. Autumn Quarter; 3:00.
PROFESSOR SHOREY.

GRADUATE COURSES.

37. **Greek Life.**—Studied from the Monuments.

Mj. Spring Quarter; 9:30.
PROFESSOR TARBELL.

38. **Private Orations of Demosthenes.**

Mj. Autumn Quarter; 8:30.
PROFESSOR TARBELL.

40, 41. **Greek Comedy.**—The course of development of this branch of the drama will be followed from the beginnings of comedy down to the perfected new comedy. The work of the Winter Quarter will be introductory to that of the Spring; the plays of Aristophanes will first be read by the instructor, with the co-operation of the class. A detailed examination will be made of the structure and technique of these plays for the light they throw upon the beginnings of comedy. Especial attention will then be given to the early period and to the two great periods of transition, and Plautus and Terence will be drawn into the field of study with reference to the new comedy. Members of the course will be expected to make frequent reports upon monographs and articles, and upon assigned fragments, and topics in dramatic technique, literary history, literary chronology, and the like will be assigned for investigation. Admission to this course will be granted only upon the approval of the instructor.

2Mj. Winter and Spring Quarters; Mon. 4:00–6:00. PROFESSOR CAPPS.

42. **Introduction to Greek Mythology.**—A general survey of the literary sources, followed by a critical study of the form and development of selected myths. Mj. Spring Quarter; 12:00.
ASSOCIATE PROFESSOR OWEN.

[Not to be given in 1904–5.]

43. **Introduction to the Text-Criticism and Interpretation of Homer.**
Mj. Autumn Quarter, Tues. and Fri., 4:00–6:00. ASSOCIATE PROFESSOR OWEN.
[Not to be given in 1904–5.]

44. **Greek Comedy,** origin and development; study and criticism of the sources of information on its early history; selections from the fragments of the various periods; rapid reading of three plays of Aristophanes, with special attention to questions of technique. Lectures and reports.
PROFESSOR CAPPS.
[Not to be given in 1904–5.]

45. **The Greek Theater.**—The general field of Greek Scenic Antiquities will be covered in lectures by the instructor and reports by members of the class; but attention will be directed particularly to unsolved problems in connection with the history and structure of the theater, the meaning of technical terms, scenic appliances, the dramatic contests, the choregia, the production of plays, actors and acting, and the like. While the literary, inscriptional, and archæological sources of information will be consulted, yet the immediate and practical bearing of the subject upon the interpretation of the drama will be made prominent, and several plays will be reviewed for information, illustration, and interpretation on the scenic side.
Mj. Autumn Quarter; Mon. 4:00–6:00.
PROFESSOR CAPPS.
[Not to be given in 1904–5.]

46. **Text Criticism.**—Critical interpretation of one play of Sophocles. Introduction to the methods of text criticism. Special attention will be given to the structure of the choral passages.
Mj. Spring Quarter; Monday. 4:00–6:00.
PROFESSOR CAPPS.

47. **Greek Inscriptions.**—An introduction to the study of the inscriptions mainly as important documents for the illustration of many phases of public and private life, but with due regard to matters of epigraphy—the decipherment of inscriptions from facsimiles and squeezes, exercises in restoration, the history of the alphabet, orthography, and the like. Michel's *Recueil* will be used by the class, but with constant reference to the *Corpus* and the epigraphical journals, with which the student is expected to become familiar. PROFESSOR TARBELL.
[Not to be given in 1904–5.]

48. **Hesiod and Homeric Hymns.** Reading and interpretation as related to Mycenaean civilization, to the Homeric poems, life, and thought, and to other early literature and pastoral life.
Mj. Autumn Quarter; 8:30.
ASSOCIATE PROFESSOR CASTLE.
[Not to be given in 1904–5.]

49. **Euripides.**—The reading of selected plays as literature. By means of lectures and papers a comprehensive view of all of the poet's extant plays will be presented. Open to Senior College students. Mj. Autumn Quarter; 9:30.
ASSOCIATE PROFESSOR CASTLE.

50. **Demosthenes.**—The translation of selected orations, accompanied by lectures and papers, to show the authors power as an orator, and the scope of his works. Open to Senior College students. Mj. Winter Quarter; 9:30.
ASSOCIATE PROFESSOR CASTLE.

51. **Homer and Homeric Age.**—Readings from the *Iliad* and *Odyssey*, with lectures, papers, and reports, designed to present a comprehensive view of the Homeric literature and age, and to show its relation to Mycenæan civilization and to later times. Open to Senior College students. Mj. Spring Quarter; 9:30.
ASSOCIATE PROFESSOR CASTLE.

52. **Herodotus.**—The author will be studied not only as a literary artist, but also as a source of information concerning the civilization, culture, and ideas of the age to which he belonged, and further as a basis for the study of the methods of historical writers; of the aim and methods in historical research and instruction, to be illustrated and elucidated by other historians both ancient and modern. Teubner's text will be used. Open to Senior College students.
Mj. Summer Quarter; 8:00.
ASSOCIATE PROFESSOR CASTLE.

53. **Lectures on the Age of Pericles.**—Readings and studies in Aristophanes and Thucydides. Open to Senior College students.
M. First Term, Summer Quarter; 11:30.
PROFESSOR SHOREY.

54. **Lectures on the Literary Criticism and Rhetoric of the Ancients,** with modern illustrations and applications. Open to Senior College students.
Mj. Winter Quarter; 3:00.
PROFESSOR SHOREY.

See Department XVI. A reading club will be formed for those who wish to read Greek in connection with this course.

55. **Plato, Menexenos, Lysias, Epitaphios.**—A study of the style of the Greek Epitaphios. Open to Senior College students.

M. Second Term, Summer Quarter; 10:00.

ASSISTANT PROFESSOR BURGESS.

57, 58, 59. **The Attic Orators.** 3 Mj.

Autumn, Winter and Spring Quarters; Wed., 4:00–6:00.

Reading club also Mon., 5:00–6:00.

PROFESSOR SHOREY.

[Not to be given in 1904–5.]

60, 61, 62. **The Drama.**

3Mj. Autumn, Winter, and Spring Quarters. Wed., 4:00–6:00. PROFESSOR CAPPS.

[Not to be given in 1904–5.]

SEMINAR.

63, 64, 65. **Seminar: Greek Philosophical Literature.**—Ritter and Preller. Lectures. Private investigation of special topics in conference with the instructor. 3Mj. Autumn, Winter, and Spring Quarters. PROFESSOR SHOREY.

[Not to be given in 1904–5.]

XII. THE DEPARTMENT OF THE LATIN LANGUAGE AND LITERATURE.

OFFICERS OF INSTRUCTION.

WILLIAM GARDNER HALE, A.B., LL.D., *Professor and Head of the Department of Latin.*
CHARLES CHANDLER, A.M., *Professor of Latin.*
FRANK FROST ABBOTT, PH.D., *Professor of Latin.*
GEORGE LINCOLN HENDRICKSON, A.B., L.H.D., *Professor of Latin.*
FRANK JUSTUS MILLER, PH.D., *Associate Professor of Latin.*
GORDON JENNINGS LAING, PH.D., *Assistant Professor of Latin.*
EDWARD AMBROSE BECHTEL, PH.D., *Instructor in Latin.*
SUSAN HELEN BALLOU, PH.B., *Associate in Latin.*
TENNEY FRANK, PH.D., *Associate in Latin.*

FELLOWS.

1904–1905.

BERNARD CAMILLUS BONDURANT, A.B.
WILBERT LESTER CARR, A.B.
MARY BRADFORD PEAKS, A.B.
BERTHOLD LOUIS ULLMAN, A.B.

INTRODUCTORY.

Most students who are beginning graduate work will find it advisable to take further reading courses before electing courses of a more technical character. The work of the seminars can be done with most profit by those who have already spent a year or more in graduate study at the University.

All graduate courses, and some of the Senior College courses under certain circumstances, are accepted as work leading to a second degree.

Candidates for the degree of Ph.D. in Latin and Greek (when Latin is the principal subject Greek must be offered as the secondary) will be expected to show, in addition to an intimate knowledge of the principles of the two languages and facility in using them, a familiarity with Greek and Roman history and the history of Greek and Latin literature, and a special knowledge of a chosen author or authors in each language.

The thesis offered in candidacy for the degree must be in printable form before the student is admitted for examination, and must be in the hands of the classical Faculty four weeks before the date fixed for that examination.

For information with reference to Library facilities see pp. 12, 13 of this BULLETIN.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a course of four or five hours for six weeks. Mj=Major course=a similar course for twelve weeks. 2Mj=a similar course for twenty-four weeks. 3Mj=a similar course for thirty-six weeks.

Senior College Courses: Elective.

Note.—Before entering upon any Senior College course, students must have taken one Junior College elective course. Before entering upon any Graduate course, students must have taken at least four Senior College courses. Courses 13-21, as here outlined, are planned to form a consecutive scheme of study covering a period of five Quarters. Students expecting to specialize in Latin or candidates for honors in this subject are advised to take this work, preferably in the order in which it is offered. It will, however, be possible for students to enter these Senior College Courses in any Quarter on completion of one Junior College elective.

13. **The Writing of Latin**: *Exercises in Latin Style.*—The method employed will be the combination of writing with the study of a model. Original compositions in English and English translations from Latin authors will be given to the students to translate into Latin in the classroom or at home.
Mj. Winter Quarter; 2:00.
Assistant Professor Laing.

14. **Cicero's** *Letters.*—Enough of the correspondence bearing upon political matters will be read to present an outline of Cicero's public life and of his times, but attention will be given in particular to the letters on personal subjects, in the hope of throwing as much light as possible upon Cicero's private character, his tastes, his daily life, and his relations with his personal and literary friends.
M. First Term, Summer Quarter; 9:00.
Mj. Spring Quarter; 9:30.
Professor Abbott.

15. **Pliny the Younger:** *Letters.*—The principal object of this course and of Course 29, aside from the necessary study of the language, will be to present a picture of life and manners at Rome under the Early Empire. Professor Hale.
[Not to be given in 1904–5, but see No. 15A.]

15A. **Pliny the Younger:** *Letters.*—Selected letters will be read, especial attention being paid to their literary form, and to the light they throw on Roman public and private life.
Assistant Professor Laing.
M. Second Term, Summer Quarter; 2:30.

16. **Lucretius.**—A study, chiefly literary, of the *De Rerum Natura*, and of the transmission and original form of the poem.
Professor Hendrickson.
[Not to be given in 1904–5.]

17. **Horace:** *Satires and Epistles.*—Attention will be especially directed upon the construction of these poems and upon Horace's philosophy of life. The members of the course will also be trained in reading hexameter verse.
Mj. Autumn Quarter; 12:00.
Professor Hendrickson.

18. **Tacitus.**—In this course selections from the *Annales* or *Historiae* will be read, with special regard to content and style. A study will be made of the political and social conditions of the times, and of the main characteristics of Tacitus' style. Mj. Winter Quarter; 3:00.
Assistant Professor Laing.

19. **Seneca,** Selections from the *Prose Writings.*—The selections will exhibit Seneca's philosophical and religious views, and the literary characteristics of the school of writing which he represents. Mj. Summer Quarter; 8:00
Professor Chandler.

20. **Plautus.**—The course will deal, on the literary side, with plot, character-drawing, diction, and style; on the linguistic side, with vocabulary, metrical treatment, and ante-classical forms and constructions. It will thus form a suitable introduction to the study of Colloquial Latin, and to the historical and comparative study of Latin Syntax. Professor Abbott.
[Not to be given in 1904–5.]

21. **Catullus.**—Reading course.
Professor Hale.
[Not to be given in 1904–5.]

22. **Terence.**—At least four of the plays will be read with special reference to their dramatic form, to the structure of the verse, and to scenic antiquities. Some attention will also be given to colloquial and archaic forms and constructions.
Professor Abbott.
[Not to be given in 1904–5.]

25. **Virgil:** *Georgics;* **Tibullus and Propertius.**—The work in Virgil will deal with the history of didactic poetry, with Virgil's diction and his treatment of the hexameter, with the construction of the Georgics, and with their religious and patriotic temper. Sufficient selections will be read from Tibullus and Propertius to exhibit

the place and consequence of these poets in the history of the development of the Augustan literature. PROFESSOR CHANDLER.

[Not to be given in 1904–5.]

26. **The Minor Augustan Poets.**
ASSOCIATE PROFESSOR MILLER.
[Not to be given in 1904–5.]

27. **The Life and Works of Virgil.**— This course will deal with the sources of our knowledge of the life of Virgil, the development of his art, and the relation of his subjects to the Roman national consciousness. Selections will be read from all the works.
Mj. Autumn Quarter; 8:30.
ASSOCIATE PROFESSOR MILLER.

28. **Tacitus and Suetonius.** — The object of the course will be as much historical as literary. Collateral reading in modern histories of Rome will accompany the study of the authors.
Mj. Winter Quarter; 8:30.
PROFESSOR CHANDLER.

29. **Juvenal and Martial.** — The main object of the course will be as described under Course 15 above; but, in addition, much attention will be paid to the accurate and intelligent rendering of the metrical forms employed by the two authors. PROFESSOR HALE.

[Not to be given in 1904–5.]

30. **Latin Hymns and Christian Prose.** — The two objects of the course are to present a view of the intellectual and moral tendencies of the centuries immediately following the decadence of pagan literature, and to give some acquaintance with the development of later Latin on the side of vocabulary, syntax, and general style.
Mj. Winter Quarter; 9:30.
PROFESSOR CHANDLER.

31. **The Historical Development of Roman Oratory.**— The course will take up the remains of the early orators in Valerius Maximus, Aulus Gellius, Macrobius, and others, and will also include selections from Cicero's *Orations* and the *Panegyric* of Pliny. The *Brutus* of Cicero will be used as a general guide; and passages from the *Orator* and *De Oratore* of Cicero, the *Dialogus* of Tacitus, and the *Institutes* of Quintilian, will serve as additional commentary.
Mj. Spring Quarter; 8:30.
PROFESSOR CHANDLER.

32. **Seneca:** *The Tragedies.*— The history of tragedy will be traced through the extant fragments; and an examination into the sources of the tragedies will be made. The greater part of the course, however, will be devoted to the *Tragedies* of Seneca. ASSOCIATE PROFESSOR MILLER.

[Not to be given in 1904–5.]

33. **Later Epic Poetry.** — The course will be based on Lucan, Silius Italicus, and Statius. Their subjects and literary methods will be discussed, and in particular the relation which their epics bear to the Æneid. PROFESSOR ABBOTT.

[Not to be given in 1904–5.]

34. **The Historical Development of Roman Satire, Followed by a Detailed Study of Persius.**— In the First Term this course will trace the development of Satire, by the aid of the extant fragments, through Ennius, Pacuvius, Lucilius, and Varro, to Horace. Especial attention will be paid to the fragments of Lucilius and of the *Menippean Satires* of Varro.
Mj. Winter Quarter; 9:30.
ASSOCIATE PROFESSOR MILLER.

35. **Quintilian,** Book X.— Introductory lectures on the principles and technique of ancient literary criticism, followed by a detailed study of the character and sources of the literary criticism in the work named.
M. First Term, Summer Quarter; 10:30.
PROFESSOR HENDRICKSON.

36. **Cicero:** *The Philosophical Works.* — Selections will be read from the *De Finibus*, the *Academica*, and the *De Natura Deorum*, with reference both to the philosophical content and to style.
Mj. Spring Quarter; 9:30.
PROFESSOR CHANDLER.

37. **Cicero:** *The Tusculan Disputations.*—Book I. This book will be made the basis for the study of Roman opinion with reference to life after death. In addition passages bearing upon the subject will be read from Cicero's Letters and philosophical works, Lucretius, Virgil, Horace, and Seneca. Mj. Summer Quarter; 9:00.
ASSOCIATE PROFESSOR MILLER.

38. **Teachers' General Training Course, I.**—Pronunciation and the reading of prose and verse. Rapid survey of the syntax of the cases, moods, and tenses, and of the principles of Latin order, in connection especially with the authors read in

the high school. Exercises in the application of these principles in acquiring the power of reading. PROFESSOR HALE.

[Not to be given in 1904–5.]

39. **Teachers' General Training Course, II.**—The purpose of this course is to supplement the more specific courses named below. In it certain fundamental subjects, with which all teachers should have a general acquaintance, will be taken up. During the first term such topics will be discussed as the relation of the several fields of classical study to one another; the transmission and reconstruction of classical texts; the formation and use of a critical apparatus; the evidence bearing on certain difficult points in pronunciation; the structure of the common verses with practical exercises in reading them; the making of a lexicon; the historical sources for a given period, and the method to be employed in testing their credibility. In the second term a critical examination will be made of Cæsar's account of his Gallic campaigns. The purpose and credibility of his narrative, the movements of the army during a chosen period, and military antiquities will be taken up for discussion.

Mj. Spring Quarter; 8:30.
PROFESSOR ABBOTT.

40, 41. **Teachers' Training Course.**—A study of the work of one of the four years of the high school, conducted partly through the instruction of a class of young students in the University High School, and partly through informal lectures and the discussion of assigned material in the subject-matter of the course. Members of the course will from time to time take part in the instruction of the University High-School class. The course will generally be given for two Quarters, but may be elected by University students for either Quarter, or for both. The subject for the year 1904–5 will be Cæsar.

2Mj. Autumn and Winter Quarters; 8:30.
PROFESSOR HALE.

43. **Teachers' Training Course.**—A study, through a single quarter, of one of the authors taught in the high school. The work will be supplemented from time to time by visits to the corresponding classes in the University High School. The author for the year 1904–5 will be Virgil.

Mj. Summer Quarter.
ASSOCIATE PROFESSOR MILLER.

44. **Martial.**—Considerable portions of the author will be read and studied, with reference to their literary art, and as portraying the state of Roman society under the Early Empire.

ASSISTANT PROFESSOR LAING.

[Not to be given in 1904–5].

45. **Latin Syntax.**—The course will consist of a series of exercises, written and oral, on some of the more important topics of Latin Syntax, especially of the Moods and Tenses.

M. Second Term, Summer Quarter; 1:30.
ASSISTANT PROFESSOR LAING.

GRADUATE COURSES.

50. **Research Course in Livy.**—The course will be based mainly on the early part of Livy's narrative. Special topics, such as the constitution of the centuriate *comitia*, the episode of the decemvirate, and the career of Appius Claudius, will be taken up for consideration.

PROFESSOR ABBOTT.

[Not to be given in 1904–5.]

51. **Research Course in Roman Politics.**—The work of the course will consist in the special investigation of some question or group of questions in the political life of Rome, through the study of the sources. PROFESSOR ABBOTT.

[Not to be given in 1904–5.]

52. **Roman Private Life.**—A systematic treatment, with illustrations (by lantern views, photographs, etc.) from the remains of ancient art and, in particular, from the remains discovered in Pompeii, Herculaneum, and Rome.

Mj. Autumn Quarter; 2:00.
ASSISTANT PROFESSOR LAING.

53. **Roman Religion.**—The course will deal with the domestic, gentile, and public worship of the Romans. Special attention will be given to the festivals and priestly orders. The work will be carried on by lectures and reports.

Mj. Spring Quarter; 2:00.
ASSISTANT PROFESSOR LAING.

54. **Roman Political Institutions.**—The course will deal topically with the magistracies, the senate, the popular assemblies, and the courts of the Republic. It is intended primarily for teachers of Latin and Political Science.

PROFESSOR ABBOTT.

[Not to be given in 1904–5.]

55. **Roman Provincial Administration.**—A study of the Roman system of government and taxation in the provinces, based mainly upon Cicero's orations against Verres and his letters from Cilicia, Pliny's correspondence with Trajan, and the inscriptions. PROFESSOR ABBOTT.

[Not to be given in 1904–5.]

56. **Early Latin:** Allen's *Remnants*, Merry's *Fragments of Roman Poetry*, and Bücheler's *Carmina Epigraphica.* — The object of the course is especially to give some clear and ordered knowledge of the beginnings of Roman literature. The treatment will be mainly philological and literary.

Mj. Autumn Quarter; 9:30.
PROFESSOR ABBOTT.

57. **Introduction to Latin Epigraphy.**—The course is planned to give students some knowledge of the material which is contained in the *Corpus Inscriptionum* for the study of the Latin language and Roman life, and to equip those who go abroad to pursue their studies in Rome, or in museums and libraries elsewhere, with a working knowledge of epigraphy.

M. First Term, Summer Quarter; 8:30.
PROFESSOR ABBOTT.

58. **Introduction to Latin Palæography.** -- The course will consist in lectures by the instructor, and practical work by members of the class upon facsimiles of manuscripts.

PROFESSOR ABBOTT.

[Not to be given in 1904–5.]

59. **The Institutes of Justinian.**—In connection with the reading, comparison will be made with the Institutes of Gaius. Several topics of the Roman private law, especially those concerning the family, will also be studied in their historical development from the early period, Morey's *Outlines of Roman Law* being used as a manual.

Mj. Autnmn Quarter; 11:00.
DR. BECHTEL.

60. **History of Roman Literature.** *The literature to the end of the Republic.*— It is the plan of the department to offer during one quarter in most years a course of detailed study in the history of some period of Roman literature. The lectures of the instructor will aim to guide the reading of students, and the primary object of the course will be to afford them assistance in gaining actual acquaintance with representative works of the period under consideration.

Mj. Winter Quarter; 12:00.
PROFESSOR HENDRICKSON.

61. **History of Roman Literature:** *The Augustan Age.* See Course 60. PROFESSOR HENDRICKSON.

[Not to be given in 1904–5.]

62. **African Christian Latin.**—The *Octavius* of Minucius Felix and the *Confessions* of St. Augustine will be read in class. An attempt will be made by means of lectures and the assignment of collateral reading to trace the development of the Christian literature of Africa, especially in its relations to classical thought and education.

Mj. Summer Quarter; 11:00.
DR. BECHTEL.

63, 64. **Research Course in Cicero's Rhetorical Writings,** with study of the application of rhetorical theory as seen in selected orations of Cicero.

2Mj. Winter and Spring Quarters; 11:00.
PROFESSOR HENDRICKSON.

65. **Latin Versification.**—A study of ancient rhythmical and metrical theory, with practical exercises in reading Latin verse.

PROFESSOR HENDRICKSON.

[Not to be given in 1904–5.]

66. **Translation as an Art.**—The object of this course is not to present methods of translation for the beginner, from the pedagogical standpoint, but to study the art of producing the translation of a given work as a polished piece of literature. Famous translations will be studied as models; the principles governing artistic translation will be observed and formulated; and practice will be given the student in applying these principles in the translation of varied selections.

Mj. Spring Quarter.
ASSOCIATE PROFESSOR MILLER.

67. **Catullus:** Research Course. Latin Palaeography, with special reference to the text of Catullus.

PROFESSOR HALE.

[Not to be given in 1904–5.]

68, 69. **Research Course.**—Syntax and style of a selected early author. PROFESSOR HALE.

Prerequisite: *Courses 84, 85, 86.*

[Not to be given in 1904–5.]

70. **Research Course.**—Cicero: *De Oratore*, Book III.

M. First Term, Summer Quarter; 12:00.
PROFESSOR HENDRICKSON.

THE SEMINARS.

75, 76, 77. **Seminar 1**: *Horace, Sermones and Epistulae, and the History of Roman Satire.*—This seminar is especially planned for students who are beginning graduate work. It will aim to familiarize them with the first principles of text criticism, with the proper use of the literature, and with methods of investigation and research. The material chosen for interpretation and discussion will be from the satires of Horace.

PROFESSOR HENDRICKSON.

[Not to be given in 1904–5.]

78, 79. **Seminar 2**: *Roman Historiography.*—The aim of the course will be as described under 70 above. The material chosen for interpretation will be the *Agricola* of Tacitus and the Corbulo episode from the *Annals.*

PROFESSOR HENDRICKSON.

[Not to be given in 1904–5.]

80, 81. **Seminar 3**: *Colloquial Latin.*—The object of the Seminar will be to investigate some of the characteristics of colloquial Latin in the matter of lexicography, pronunciation, syntax, and style, and to determine to some extent the relation of colloquial to literary Latin, as well as its connection with archaic Latin on the one hand, and with the Romance languages on the other. 2Mj. Autumn and Winter Quarters; Tues., 4:00–6:00. PROFESSOR ABBOTT.

82, 83. **Seminar 4**: *The Latin Romance.*—Attention will be directed in the main upon Petronius and Apuleius. Readings from these authors will be supplemented by informal lectures on the history and characteristics of the Latin Romance. Papers will be presented from time to time by members of the Seminar.

PROFESSOR ABBOTT.

[Not to be given in 1904–5.]

84, 85, 86. **Seminar 5**: *The Comparative Syntax of Latin and Greek.*—The work of the seminar will deal first with the general question of methods of attack in syntactical investigation and the fundamental principles properly governing it, and then with detailed problems. Considerable quantities of Homer and Plautus will be read for material. Papers will be prepared, and discussed at meetings of the seminar.

In most cases students will be expected to take one of the other seminars before registering for this seminar.

3Mj. Autumn, Winter, and Spring Quarters; Thurs., 4:00–6:00. PROFESSOR HALE.

XIII. THE DEPARTMENT OF ROMANCE LANGUAGES AND LITERATURES.

OFFICERS OF INSTRUCTION.

KARL PIETSCH, PH.D., *Associate Professor of Romance Philology.*
THOMAS ATKINSON JENKINS, PH.D., *Associate Professor of French Philology.*
GEORGE CARTER HOWLAND, A.M., *Assistant Professor of Italian Philology.*
MAXIME INGRES, B. ÈS LETTRES, *Assistant Professor of French.*
THEODORE LEE NEFF, PH.D., *Instructor in French.*
ERNEST JEAN DUBEDOUT, DR. ÈS LETTRES, *Instructor in French Literature.*
ELIZABETH WALLACE, S.B., *Instructor in French Literature.*
HIRAM PARKER WILLIAMSON, A.M., *Instructor in French.*
LISI CECILIA CIPRIANI, PH.D., *Instructor in French and Comparative Literature.*
HENRI CHARLES EDOUARD DAVID, A.B., *Associate in French.*

WILLIAM ALBERT NITZE, *Associate Professor of Romance Languages, Amherst College* (Summer, 1904).

FELLOWS.

1904–1905.

LOUIS JOSEPH MERCIER, A.B.
ROBERT JAMES SPROTT, A.B.

INTRODUCTORY.

The instruction offered in the *Graduate Department* consists mainly of courses whose object is to put the student in possession of the results already achieved in Romance linguistics and in the history of the Romance literatures. The training of specialists can begin only after this general knowledge has been secured.

It will be observed that certain of the courses, constituting the first year of graduate studies, are repeated during each academic year; others are provided only in alternate years. The whole thus forms a normal sequence of three years' study, and is intended primarily for those who may become candidates for the degree of Doctor of Philosophy. The first year studies correspond, in a general way, to the requirements for the Master of Arts degree (see below). They are specially planned to meet the needs of those who are preparing to occupy positions in institutions which provide elementary and intermediate instruction in one or more of the Romance languages.

The aim of the instruction in the second and third years of graduate studies is to impart to students, along with much that is in the nature of necessary information, an appreciation of sound methods of dealing with linguistic and literary facts and theories. This appreciation once reached, and granted the needed industry and enthusiasm, the student may attempt research work with good chances of success.

REQUIREMENTS FOR THE HIGHER DEGREES.

To be admitted as candidates for either of the higher degrees, students must furnish evidence of *a*) preparation equal to three years' work in modern French (or nine Majors); *b*) a reading knowledge of either Spanish or Italian.

SPECIAL REQUIREMENTS FOR THE MASTER'S DEGREE.

For the general conditions of candidacy for this degree, see p. 10 of this BULLETIN. With *Romance as secondary subject*, the requirements are: at least two Majors to be selected from the first-year graduate courses, one of them being an Italian or a Spanish course. With *Romance as principal subject*, the requirements are: *a*) French Phonetics and Prosody (Mj); History of the French Language (Mj); French Literature in the Seventeenth Century (Mj); French Literature in the Sixteenth Century (Mj); Italian Classics (Mj); Spanish Classics (Mj); one additional graduate course (*e.g.*, 22, 23, 41, etc.); *b*) a satisfactory dissertation upon a subject approved by the Head of the Department; this must be presented at least eight weeks before the Convocation at which the candidate expects to receive the degree; *c*) a satisfactory oral examination before the Faculty of the Department.

SPECIAL REQUIREMENTS FOR THE DOCTOR'S DEGREE.

For the general conditions, see pp. 10, 11 of this BULLETIN. With *Romance as secondary subject*, nine Majors are required, to be selected from the regular graduate courses, after conference with the Head of the Department. At least one Major shall be in Spanish or Italian. With *Romance as principal subject* the minimum requirements are: *a*) eight Majors in French language, four Majors in modern French literature, one Major in Spanish, one Major in Italian, and four additional Majors in either Spanish or Italian; *b*) a satisfactory dissertation upon a subject which shall have been approved by the Head of the Department at least twelve months before the proposed date of the final examinations; the dissertation must be presented in a form practically complete at least four months before the Convocation at which the candidate expects to receive the degree; *c*) a satisfactory written, and the public oral, examination, the latter before a committee consisting of the Faculty of the Department and one or more members appointed by the President of the University.

Candidates for the degree of Doctor of Philosophy who desire to specialize in modern French literature may reverse the proportions of linguistic and literary courses in French indicated above, that is, such candidates are required to complete at least four Majors in French language (preferably Courses 31, 33, 39, 41). Under the title "eight Majors in French language" are included a course in Popular Latin (see Department XII) and a course in Provençal language and literature (Course 49). Candidates who desire to specialize in Italian or Spanish (or in both) will consult with the Head of the Department in regard to possible substitutions in the requirements outlined above.

It should be noted that the Doctor's degree will not be conferred merely for faithful and careful work, however great in amount. The candidate must possess special aptitudes for linguistic or literary science, and

show the power to investigate on independent lines. The requirements, therefore, cannot be stated in terms of years or courses. Three years, one of which may profitably be spent abroad, is the minimum of time usually required by those who possess the requisite capacity and preparation.

The courses offered in successive Summer Quarters are so selected that teachers and others, by regular summer attendance, may become candidates for higher degrees without loss of time.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. Mj=Major course=a single course for twelve weeks.

Graduate Courses.

21. **La Littérature Française au 17e siècle.**—Classicisme: origines, formation, apogée, déclin. Auteurs à étudier: Boileau, Molière, La Fontaine, Pascal, Bossuet, etc.
Mj. Autumn Quarter; 11:00.
Dr. Dubedout.

22. **La Littérature Française au 18e siècle.**—Ce cours aura pour objet de montrer, après le XVIIe siècle, la transformation des idées littéraires, morales, et sociales. Auteurs à étudier: Montesquieu, Voltaire, Les Encyclopédistes, J.-J. Rousseau, Buffon, A. Chénier.
Mj. Summer Quarter; 12:00.
Repeated in Winter Quarter.
Dr. Dubedout.

23. **La Littérature Française au 19e siècle.**—Réalisme et naturalisme, etc. Auteurs à étudier: Mérimée, Flaubert, Zola, Maupassant, les Goncourt, Daudet. L'École Parnassienne. Le Naturalisme au Théâtre. Mj. Spring Quarter.
Dr. Dubedout.

24. **Fénelon.**—La *Lettre sur les Occupations de l'Académie française;* étude critique des idées et des théories. Mj. Autumn Quarter.
Dr. Dubedout.

25. **J.-J. Rousseau et le Théâtre:** La *Lettre à Dalembert sur les spectacles* sera l'objet d'une étude spéciale. Edition Brunel, Paris, Hachette, 1896.
Mj. Winter Quarter.
Dr. Dubedout.

27. **La Préface de *Cromwell*.**—Étude critique et littéraire. Edition Effinger, Chicago, 1900.
Mj. Spring Quarter.
Dr. Dubedout.

31. **French Phonetics and Prosody.**—(*a*) Detailed study of the living French sounds, accent, etc., with their English-American approximations. (*b*) The history of French versification. Vietor-Rippmann, *Elements of Phonetics;* Tobler, *Le Versfrançais*, 1885.
Mj. Spring Quarter; 8:30.
Associate Professor Jenkins.

33. **History of the French Language.**—Lectures on the general history of Old, Middle, and Modern French, with an introduction to the methods used in historical grammar; bibliography. Nyrop, *Grammaire historique de la Langue française*, Tome Ier, Première partie.
Mj. Winter Quarter; 8:30.
Associate Professor Jenkins.

39. **French Literature in the Sixteenth Century.**—Origins of the period of classicism in France; language and literature, with illustrative reading. Darmesteter and Hatzfeld, *Le Seizième Siècle en France.* Mj. Summer Quarter; 8:00.
Associate Professor Nitze.
Autumn Quarter; 8:30.
Associate Professor Jenkins.

41. **Readings in Old French Literature.**—Morphology and illustrative readings, serving as an introduction both to grammatical forms and to mediæval French literature. Texts: *La Chanson de Roland, Aucassin et Nicolette, Erec et Enide, Le Mystère d'Adam.*
Mj. Autumn Quarter; 9:30.
Associate Professor Jenkins.

43. **Historical French Grammar, I.**—History of the French sounds; phonetic (dialectic) basis of the Romance element in English. Schwan-Behrens, *Grammaire de l'ancien français* (*traduction Bloch*), 1900.
Associate Professor Jenkins.
[Not to be given in 1904–5.]

44. **Historical French Grammar, II.**—French Inflections, Word-Formation, and Syntax. Schwan-Behrens' Grammar; Darmesteter, *Grammaire historique, Quatrième partie.*
Associate Professor Jenkins.
[Not to be given in 1904–5.]

46. **Mediæval French Literature.**—Continues Course 41. The mediæval *genres* characterized, with illustrative readings. G. Paris, *Mediæval French Literature* (Temple Primer), 1903. Bartsch, *Chrestomathie de l'ancien français*, sixth edition, 1895.

Mj. Summer Quarter; 9:00.
ASSOCIATE PROFESSOR NITZE.

Winter Quarter; 9:30.
ASSOCIATE PROFESSOR JENKINS.

48. **French Seminar.**—Old French Dialects: determination and characterization, on the basis of all the MSS. known, of the dialect of the *Eructavit*, a XIIth century metrical paraphrase of Psalm XLIV (XLV).

Mj. Spring Quarter; 9:30.
ASSOCIATE PROFESSOR JENKINS.

49. **Old Provençal.**—Old Provençal literature and its influence during the Middle Ages. Appel, *Provenzalische Chrestomathie*, second edition, Leipzig, 1902. Mj. Winter Quarter; 3:00.
ASSOCIATE PROFESSOR PIETSCH.

59. **Dante,** *L'Inferno* (Scartazzini's edition).—Open to Senior College students.

Mj. Summer Quarter; 10:30.
ASSISTANT PROFESSOR HOWLAND.

61. **Old Italian Readings.**—Monaci's *Crestomazia italiana dei primi secoli.*

Mj. Summer Quarter, 11:30.
ASSISTANT PROFESSOR HOWLAND.

63. **Historical Italian Grammar.**—Phonology and morphology, especially of the Tuscan dialects. Meyer-Lübke, *Grammatica storico-comparata della lingua italiana*, Torino, 1901.

ASSISTANT PROFESSOR HOWLAND.
[Not to be given in 1904–5.]

66. **History of Old Italian Literature.**—From the beginnings to Dante. Lectures. Bartoli, Gaspary, and other works of reference.

Mj. Autumn Quarter; 4:00
ASSISTANT PROFESSOR HOWLAND.

68. **Italian Seminar.**—Dante's works other than the *Divina Commedia;* their sources and their relation to the latter.

Mj. Winter Quarter. Hours to be arranged.
ASSISTANT PROFESSOR HOWLAND.

79. **Spanish Classics.**—The life and works of Cervantes.—Selected dramas of Lope de Vega and Calderon. These subjects are treated alternately. Open to Senior College students.

ASSOCIATE PROFESSOR PIETSCH.
[Not to be given in 1904–5.]

81. **Old Spanish Readings.**—Interpretation of selections from Keller, *Altspanisches Lesebuch.* Leipzig, 1890.

ASSOCIATE PROFESSOR PIETSCH.
[Not to be given in 1904–5.]

83. **Historical Spanish Grammar.**—Sounds and Inflections. Lectures and practical exercises on Old Spanish texts. R. Menéndez Pidal, *Manual elemental de Gramática históricа española*, Madrid, 1904. Mj. Summer Quarter; 3:30
ASSOCIATE PROFESSOR PIETSCH.

86. **History of Old Spanish Literature.**—A comprehensive view of Spanish literature previous to the classic period. Fitzmaurice-Kelly, *Historia de la Literatura Española.*

ASSOCIATE PROFESSOR PIETSCH.
[Not to be given in 1904–5.]

88. **Spanish Seminar.**—Exercises, linguistic and literary, based on the *Libro de Buen Amor* of Juan Ruiz, Arcipreste de Hita, ed. Ducamin, Toulouse, 1901. Mj. Spring Quarter; 3:00
ASSOCIATE PROFESSOR PIETSCH.

XIV. THE DEPARTMENT OF GERMANIC LANGUAGES AND LITERATURES.

OFFICERS OF INSTRUCTION.

STARR WILLARD CUTTING, Ph.D., *Professor of German Literature.*
CAMILLO von KLENZE, Ph.D., *Associate Professor of German Literature.*
HANS M. SCHMIDT-WARTENBERG, Ph.D., *Assistant Professor of Germanic Philology.*
PAUL OSKAR KERN, Ph.D., *Assistant Professor of Germanic Philology.*
PHILIP SCHUYLER ALLEN, Ph.D., *Assistant Professor of German Literature.*
FRANCIS ASBURY WOOD, Ph.D., *Instructor in Germanic Philology.*
MARTIN SCHÜTZE, Ph.D., *Instructor in German Literature.*
ADOLF CHARLES von NOÉ, A.B., A.M., *Instructor in German in the School of Education and the Junior Colleges.*
HENRIETTA KATHERINE BECKER, Ph.D., *Associate in German.*
CHARLES GOETTSCH, A.B., *Assistant in German.*

PROFESSOR A. R. HOHLFELD, Ph.D., *Professor of German Literature, University of Wisconsin* (Summer, 1904).

FELLOWS.

1904-1905.

JOSEPH BEIFUS, A.B. CHARLES GOETTSCH, A.B.

INTRODUCTORY.

The German courses of the Junior College (six majors), plus at least eight Senior College elective Majors. or an equivalent, are required for admission to the graduate work of the department. Graduate students from other institutions, whose preliminary training in German has been deficient either in quantity or quality, may be required to supplement their previous work by Senior College electives before admission to the standing of graduate students in the department. One Senior College elective (Course 11) may be accredited to the graduate student as resident work.

The aims of the graduate work offered by the department of Germanic Languages and Literature are as follows:

1) To acquaint the student already in possession of a practical grasp of the German Language with the great movements of literary and linguistic development within the Teutonic field, outside of English. 2) To direct the efforts of students who have already received the requisite preliminary training in the investigation of special problems of phonetics, phonology, morphology, syntax, metrics, style, text-criticism, and literary history, including especially literary origins and relationships.

Lectures and recitations are employed in the more general, and seminars in the more special and detailed features of the work. Still more personal is the direction given by the instructor to the student in the research work to be embodied later in a dissertation for the degree of Doctor of Philosophy.

SPECIAL REQUIREMENTS FOR THE HIGHER DEGREES.

The Master's Degree.—For the alternatives offered by the University to candidates for this degree, see p. 10 of this Bulletin. When Germanic Languages and Literatures are chosen, either as the *secondary subject*, or as one of three *co-ordinate subjects*, at least three elementary graduate Majors must be taken, including Gothic. The minimum requirements with Germanic Languages and Literatures as *principal subject* are seven graduate Majors, including Gothic, Old High German, History of the German Language, Outline Course in German Literature, and Deutscher Satzbau und Stil.

The Doctor's Degree.—(1) A thorough command of modern German as a means for the oral and written expression of thought. (2) Acquaintance with the general history of German literature (*e. g.*, Course 58). (3) Acquaintance with the general development of the German language (*e. g.*, Courses 81, 82, 83, 87). (4) More intimate knowledge of the history of the language or of the literature, according to the prevailing trend of

the student's special work. (5) Minute acquaintance of the period within which the materials of the student's dissertation lie. (6) A satisfactory dissertation upon a subject approved by the Head of the Department. (7) A satisfactory examination. The candidate is admitted to the final examination only when the dissertation is already in printable form, and upon the assurance of a reputable publisher that the thesis will be printed and that the required number of copies will be furnished the University within the prescribed time limit.

Since the department expects primarily in the candidate some capacity for independent thinking, and for the successful investigation of hitherto unsolved linguistic or literary problems, and since it never recommends conferring the degree for the mere faithful and accurate performance of a prescribed amount of work, no estimate of the maximum time required to prepare for the examination can be given. Three years are the usual minimum.

The suite of rooms occupied by the department contains the special Germanic Library of about five thousand volumes, embracing a large and choice selection of books of reference, with abundant material for original research. The collection is now especially rich in material for work in linguistics and in eighteenth century literature. Other libraries, including those of related departments, the Newberry Library, and the Public Library will supplement for the student the value of the Germanic Library of the University in certain lines.

The Germanic Club, including candidates for advanced degrees, other advanced students, and all instructors of the department, meets once in two weeks for the reading and discussion of journal reports, reviews, and original papers upon subjects in language and literature within the scope of the regular work of the members.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

For the Senior Colleges.

11. **Aufsätze und Stilübungen.**—Oral and written criticism of brief daily themes upon subjects suggested by the instructor. *Freie Reproduktion.* Discussion of German synonyms, the more difficult principles of syntax, and the elements of style. Open to Graduate students upon consultation with instructor.

Mj. Summer Quarter; 8:00.
ASSISTANT PROFESSOR KERN.

Mj. Winter Quarter; 9:30.
ASSISTANT PROFESSOR KERN.

For the Graduate School.

16. **Deutscher Satzbau und Stil.**—A sequent of course 11. The aim of the work is to develop an instinct for idiom and an active sense of the niceties of style, by discussing, varying, and independently reproducing passages from great stylists of the nineteenth century. Open to Senior College students who have taken Course 11. Mj. Autumn Quarter; 11:00.
DR. BECKER.

61. **Old High German Literature.**—Lectures upon the literary monuments of the Old High German period, with critical reading of selections from the most important documents. This course presupposes Course 82.

Mj. Spring Quarter; 3:00.
ASSISTANT PROFESSOR SCHMIDT-WARTENBERG.

62. **The Nibelungenlied.**—A critical study of its legendary and mythological background, of its composition, and of its language. Some knowledge of Middle High German is a prerequisite for the course. Mj. Spring Quarter; 11:00.
ASSOCIATE PROFESSOR VON KLENZE.

63. **Geschichte der Mittelhocduetschen Litteratur.**—Vorlesungen mit Uebungen.

Mj. Winter Quarter; 2:00.
PROFESSOR CUTTING.

69. **Seminar:** *The Evolution of Nature Sense in the Eighteenth Century in Germany, France, and England.*—A study of the great emotional reaction of the Eighteenth Century on a comparative basis. If desired, the course will be conducted in English. Open to Graduates only.

Mj. Summer Quarter; hours to be arranged.
ASSOCIATE PROFESSOR VON KLENZE.

70. **Seminar:** *Goethe's Italienische Reise.*—In his *Italienische Reise* Goethe exhibits the predilections and the prejudices of his age in matters of art.

Besides, this work is an important commentary on the growth of his intellectual life. The course aims to introduce the student to Goethe's attitude towards art and life.

DMj. Autumn and Winter Quarters; hours to be arranged,

ASSOCIATE PROFESSOR VON KLENZE.

71. **The Early Mediæval Latin Lyrics.**—The mediæval lyric of Germany grew directly out of the Middle-latin lyric, and a knowledge of the rise and efflorescence of the latter is therefore necessary to any adequate understanding of German Minnesang. A critical study of the *Cambridge Songs* and the *Carmina Burana* will be the basis of a discussion of the origins of lyric poetry in the middle Ages.

Mj. Autumn Quarter; 11:00.
ASSISTANT PROFESSOR ALLEN.

72. **Ibsen and the Modern Drama.**— The evolution of sociological and artistic tendencies in the modern drama beginning with Ibsen. Subjects will be suggested for independent investigation. Lectures and papers.

Mj. Winter Quarter; 9:30.
DR. SCHÜTZE.

73. **Geschichte der Deutschen Litteratur im 16. Jahrhundert.**—An introduction to the literature of Humanism and the Reformation, with special attention to the early German drama.

Mj. Spring Quarter; 2:00,
PROFESSOR CUTTING.

III. COURSES IN PHONETICS, IN EARLIER GERMANIC DIALECTS, AND IN THE HISTORY OF GERMANIC LANGUAGES.

For the Senior Colleges.

80. **History of the German Language.**—There is a growing conviction that a knowledge, however elementary, of the historic development of the German language is a necessity for the intelligent teaching of the modern idiom. The course is arranged with regard solely to the special needs of the teacher in the class-room. The lectures will be based upon Behaghel's *Deutsche Sprache*, with frequent reference to the best known school grammars. An acquaintance with the older periods of German, though desirable, is not required.

Mj. Summer Quarter (College of Education); Spring Quarter;
ASSISTANT PROFESSOR KERN.

For the Graduate School.

81. **Gothic.**—(Elementary course.) A consideration of Gothic phonology, morphology, and syntax in connection with the reading of selections from the Bible translation of Ulfilas.

Mj. Summer Quarter; 1:30.
DR. WOOD.
Autumn Quarter; 4:00.
ASSISTANT PROFESSOR SCHMIDT-WARTENBERG.

82. **Old High German.**—The reading of selections from Braune's *Althochdeutsches Lesebuch*, with reference to the same author's *Althochdeutsche Grammatik*. This course is a natural sequent of Course 81. Winter Quarter; 3:00.
ASSISTANT PROFESSOR SCHMIDT-WARTENBERG.

83. **Middle High German.**—An introductory course that includes discipline in Phonology, Morphology, and Syntax derived from the critical reading of Hartmann's von Aue, *Der arme Heinrich* (ed. Wackernagel-Toischer). Incidental practice in German prose composition is afforded by translation of the mediæval into the modern idiom.

Mj. Summer Quarter; 9:00.
Mj. Spring Quarter; 9:30.
ASSISTANT PROFESSOR KERN.

84. **Old Norse.**—The work will be based on B. Kahle *Altisländisches Elementarbuch*. A knowledge of Gothic is desirable.

Mj. Autumn Quarter; 2:00.
DR. WOOD.

85. **Old Saxon.**—Sievers, *Hêliand*, 1878; Heyne, *Kleinere altniederdeutsche Denkmäler*, 2. Aufl., 1877; Holthausen, *Altsächsisches Elementarbuch*. Equally valuable for the student of English and of German.

Mj. Summer Quarter; 2:30.
Mj. Winter Quarter; 11:00.
DR. WOOD.

87. **Introducton to Germanic Philology.**

Autumn Quarter; 3:00.
ASSISTANT PROFESSOR SCHMIDT-WARTENBERG.

92. **Seminar:** *Luther's Sprache.*

Mj. Spring Quarter; hours to be arranged.
ASSISTANT PROFESSOR SCHMIDT-WARTENBERG.

93. **Gothic.**—(Advanced course.) A consideration of Gothic phonology and morphology, as related to the other Germanic and to the Indo-European languages. This course, which will be a proseminar in Germanic philology, will be open to

those who have had Course 81 or to any who have had philological training in any of the related languages.

Mj. Winter Quarter; 9:30, Dr. Wood.

94. **Seminar:** *Text-criticism.*

Mj. Winter Quarter; hours to be arranged. Assistant Professor Schmidt-Wartenberg.

110. **Die Entwicklung des deutschen Dramas im 19. Jahrhundert.**—An examination of the extent to which chiefly Hebbel, Ludwig, and Anzengruber paved the way for the Realism of the eighth decade of the nineteenth century.

Mj. Summer Quarter; 11:00. Professor Hohlfeld.

XV. THE DEPARTMENT OF ENGLISH.

OFFICERS OF INSTRUCTION.

JOHN MATTHEWS MANLY, Ph.D., *Professor and Head of the Department of English.*
WILLIAM CLEAVER WILKINSON, D.D., *Professor (Emeritus) of Poetry and Criticism.*
WILLIAM DARNALL MacCLINTOCK, A.M., *Professor of English.*
FRANCIS ADELBERT BLACKBURN, Ph.D., *Associate Professor of English.*
MYRA REYNOLDS, Ph.D., *Associate Professor of English.*
ROBERT HERRICK, A.B., *Associate Professor of English.*
ROBERT MORSS LOVETT, A.B., *Associate Professor of English.*
ALBERT HARRIS TOLMAN, Ph.D., *Assistant Professor of English.*
FREDERIC IVES CARPENTER, Ph.D., *Assistant Professor of English.*
WILLIAM VAUGHN MOODY, A.M., *Assistant Professor of English.*
JAMES WEBER LINN, A.B., *Instructor in English.*
HENRY P. CHANDLER, A.B., *Instructor in English.*
ROBERT WALTER BRUÈRE, A.M., *Instructor in English.*
NOTT WILLIAM FLINT, A.B., *Instructor in English.*
PERCY HOLMES BOYNTON, A.M., *Associate in English.*
CHARLES ANDREWS HUSTON, A.B., *Assistant in English.*
ELEANOR PRESCOTT HAMMOND, Ph.D., *Docent in English.*

EDWARD EVERETT HALE, JR., Ph.D., *Professor of English, Union College* (Summer Quarter).
WILL D. HOWE, Ph.D., *Professor of English, Butler College* (Summer Quarter).

FELLOWS.

1904-1905.

JOHN SAMUEL KENYON, A.B.
ALBERT GRANBERRY REED, A.B.
ABBIE MARY LYON SHARMAN, A.B.
GEORGE COFFIN TAYLOR, A.B.

INTRODUCTORY.

Students in the Graduate School may take any course offered to Senior College and graduate students for which they are properly equipped; but only three of the seven historical courses, 42–48, will be counted towards a Master's or Doctor's degree, though all of them, or the equivalent, will be required of candidates for the doctor's degree.

FELLOWSHIPS.

Preference will be given to persons who have devoted at least one year to graduate study in English and who submit papers indicating capacity for serious work. Applications should be in the hands of the President of the University not later than March 1.

SPECIAL REQUIREMENTS FOR THE MASTER'S DEGREE.

No student will be admitted to candidacy for the Master's degree in English who has not the equivalent of the required courses in English and four of the courses 42–48.

The Master's degree may be obtained in two ways:

a) As representing a continuation of the College course. In this case the student must present three graduate courses in each of three departments and pass a satisfactory examination upon these courses.

b) As representing a certain amount of specialization. In this case the student must present seven graduate courses in one department, accompanied by a satisfactory thesis upon some special topic, and must pass an examination upon the thesis and the courses presented.

Students in the Department of English desiring the degree upon either plan must submit to the Head of the Department reports from their instructors; otherwise they cannot be recommended for enrolment as candidates.

The thesis must be presented eight weeks before the convocation at which the candidate desires to receive the degree.

SPECIAL REQUIREMENTS FOR THE DOCTOR'S DEGREE.

The special requirements for the Doctor's degree are:

1. The general history of English Literature.
2. Old and Middle English, *e. g.*, Courses 21–23, 26–28.
3. Minute knowledge of the particular field chosen for special study.
4. Reasonable familiarity with the social and political history of the period chosen for special study.
5. Auxiliary studies. These subjects will of course vary with the field chosen for special study: thus for Old and Middle English they would be Gothic, Icelandic, Germanic Phonology and Morphology, and Old French (especially Anglo-Norman); for the sixteenth century they would be Italian, German, Latin, and French; for the classical period, Latin and seventeenth century French; for the romantic movement, eighteenth century French and German; for the nineteenth century, French and German, and, in some cases, Italian.
6. A satisfactory dissertation upon a subject approved by the Head of the Department. This must be presented at least four months before the date of the convocation at which the candidate desires to receive the degree.
7. A satisfactory examination.

The Doctor's degree will not be conferred merely for faithful and accurate work, however great in amount. The candidate must exhibit some power of investigation and of original thought. The requirements cannot therefore be stated in terms of years or courses. In general it may be said, however, that three years is the minimum time required in the case of a competent student who enters the Graduate School with a good equipment.

LIBRARY FACILITIES.

1. The Library of the Department of English contains about 7,500 volumes, and is growing at the rate of 500 volumes a year. It is supplied with the principal journals devoted to English studies, the most important dissertations, such editions and treatises as are necessary to illustrate the courses given, and some of the sources for special research. The Library of the Germanic Department (6,000 vols.) and that of the Romance Department (4,000 vols.) are in rooms adjoining the English Library. Each of the three libraries is therefore easily accessible to students in the others.
2. Other departmental libraries, especially those of History, Philosophy, Latin, and Greek.
3. The General Library of the University, which contains about 262,000 volumes.
4. The Newberry Library, the Crerar Library, and the Public Library of the city of Chicago, containing about 200,000 volumes each.

PUBLICATIONS.

The series of *English Studies* issued by the department includes monographs on subjects connected with its work; they are published at irregular intervals. The following studies have appeared;

1) *The Assembly of Gods, or The Accord of Reason and Sensuality in the Fear of Death*, by John Lydgate, edited by Oscar Lovell Triggs, Ph.D.

2) *The History of the English Paragraph*, by EDWIN HERBERT LEWIS, PH.D.
3) *Metaphor and Simile in the Minor Elizabethan Drama*, by FREDERIC IVES CARPENTER, PH.D.
4) *The Treatment of Nature in English Poetry between Pope and Wordsworth*, by MYRA REYNOLDS, PH.D.
5) *The Arte or Crafte of Rhethoryke*, by Leonard Cox, edited by FREDERIC IVES CARPENTER, PH.D.

THE ENGLISH CLUB.

The English Club meets every six weeks for the presentation and discussion of papers upon subjects of general interest to instructors and graduate students in English.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M = Minor course = a single course for six weeks. Mj = Major course = a single course for twelve weeks. 2Mj = A single course for twenty-four weeks.

5, 6. **English Composition:** *Advanced Course.*—Courses 5 and 6 should be elected as a whole. These courses are open to students in the Senior Colleges (preferably members of Senior Divisions I–III) and the Graduate School who have attained a high grade in the prescribed Courses 1 and 3, or who otherwise satisfy the instructor of their ability to pursue the work. 2 Mj.

Autumn Quarter, 12:00.
ASSOCIATE PROFESSOR LOVETT.

Winter Quarter, 3:00.
ASSOCIATE PROFESSOR HERRICK.

7. **Rhetoric and Composition for Teachers.**—(1) The writing and the criticism of themes, with a study of the principles of structure; (2) a study of text-books and methods of teaching English composition in secondary schools.

M. First Term, Summer Quarter; 2:30.
MR. FLINT.

COURSES IN THE ENGLISH LANGUAGE.

For the Senior Colleges and the Graduate Schools.

21. **Old English:** *Elementary Course.*
Grammar and easy reading—Bright's *Anglo-Saxon Reader.* Mj. Summer Quarter; 1:30.
PROFESSOR HOWE
AND ASSOCIATE PROFESSOR BLACKBURN

Mj. Autumn Quarter; 2:00.
ASSOCIATE PROFESSOR BLACKBURN.

22. **Old English** (continued): *West Saxon Prose.*
In 1904–5 this will be a study of the works of Alfred, and will consist of the reading of the *Boethius* and lectures on Alfred's life and literary work. Mj. Winter Quarter; 2:00.
ASSOCIATE PROFESSOR BLACKBURN.

23. **Old English:** *Poetry.*—Reading of the *Beowulf* with study of meter and of the literary characteristics of Old English poetry.

Mj. Spring Quarter; 2:00.
ASSOCIATE PROFESSOR BLACKBURN.

24. **Old English:** *Advanced Course.*—Rapid reading of selected works, both prose and poetry. For Graduate students only.

Prerequisites: *Courses 21–23, or their equivalents.* Mj. Autumn Quarter; 3:00.
ASSOCIATE PROFESSOR BLACKBURN.

25. **Old English:** *Special Course.*—Study of some special text with reference to sources, grammatical peculiarities, construction of text, dialect, etc. For Graduate students only.

M. First Term, Summer Quarter; 2:30.
ASSOCIATE PROFESSOR BLACKBURN.

26. **Early Middle English.**—Reading of selections from English remains of the twelfth and thirteenth centuries, with special attention to the grammatical development of the language.

Prerequisite: *Some knowledge of Middle English.* Mj. Winter Quarter; 3:00.
ASSOCIATE PROFESSOR BLACKBURN.

27. **Later Middle English.**

Mj. Spring Quarter; 3:00.
PROFESSOR MANLY.

28. **Chaucer:** *The Canterbury Tales.*—An introductory course for students who have had no training in Middle English.

Mj. Summer Quarter; 11:30.
First Term, DR. HAMMOND.
Second Term, PROFESSOR HOWE.

Mj. Autumn Quarter; 11:00.
PROFESSOR MANLY.

29. 1, 2. **English Metrical Romances.**—The first quarter will be devoted to lectures and reports; the second to the investigation of problems. For Graduate students only. Permission of the instructor is necessary for admission to this course.
PROFESSOR MANLY.

[Not to be given in 1904–5.]

30. **Comparative Grammar of Old English.**—A lecture course on the sounds and the inflections of Old English, intended not only for students of the English language but also for students of general comparative philology, in particular those giving special attention to the Teutonic group. For Graduate students only.
Mj. Spring Quarter; 3:00.
ASSOCIATE PROFESSOR BLACKBURN.

33. **The Grammar of Modern English.**—Intended especially for teachers of English.
Mj. Autumn Quarter; 3:00.
ASSISTANT PROFESSOR TOLMAN.

34. **The History of the English Language.**—Primarily for Graduates.
Mj. Spring Quarter; 9:30.
DR. HAMMOND.

Prerequisites: *One Major of Old English, and some knowledge of Latin and German.*

35. 1, 2, 3. **English Language Seminar.**—For investigation and special study of linguistic problems. Students are admitted only by permission of the instructor. For Graduate students only.
3Mj. Tues., Thurs., 4:00.
ASSOCIATE PROFESSOR BLACKBURN.

36. **The History of Old English Literature.**—Lectures on English Literature from the date of the earliest remains to the Norman Conquest. Mj.
ASSOCIATE PROFESSOR BLACKBURN.

This course alternates with 30, and will not be given in 1904–5.

37. **Chaucer:** *Advanced Course.*—For graduate students only. Mj. Winter Quarter; 2:00.
PROFESSOR MANLY.

38. **Chaucer.**—Seminar. Open only to those who have taken Course 37. Mj.
PROFESSOR MANLY.

[Not to be given in 1904–5].

39. **English Literature in the Fifteenth Century.**—For Graduate students only. Mj.
DR. HAMMOND.

[Not to be given in 1904–5.]

COURSES IN MODERN ENGLISH LITERATURE.

For the Senior Colleges.

Courses 42–48 cover with some minuteness the history of English literature from the beginning of the modern period down to the present time. They need not be taken in chronological order, but it is desirable that they should be so taken, if possible.

42. **English Literature, 1557–1599.**
Mj. Autumn Quarter; 11:00.
ASSOCIATE PROFESSOR LOVETT.

43. **English Literature, 1599–1642.**
Mj. Winter Quarter; 11:00.
ASSISTANT PROFESSOR TOLMAN.

44. **English Literature, 1642–1700.**
Mj. Spring Quarter; 9:30.
PROFESSOR MACCLINTOCK.

45. **English Literature, 1700–1744.**
Mj. Autumn Quarter; 8:30.
ASSOCIATE PROFESSOR REYNOLDS.

46. **English Literature, 1744–1798.**
M. First Term, Summer Quarter; 8:00.
Mj. Winter Quarter; 8:30.
ASSOCIATE PROFESSOR REYNOLDS.

47. **English Literature, 1798–1832.**
Mj. Winter Quarter; 12:00.
ASSOCIATE PROFESSOR LOVETT.

48. **English Literature, 1832–1892.**
Mj. Summer Quarter; 10:30.
ASSOCIATE PROFESSOR LOVETT.
Mj. Spring Quarter; 11:00.
ASSISTANT PROFESSOR TOLMAN.

50. **Studies in the Literature of the Elizabethan Period, 1550–1650.**—For Graduate students only.
2Mj. Winter and Spring Quarters, Tues. and Thurs.; 4:00.
ASSISTANT PROFESSOR CARPENTER.

Prerequisite: *English 42, 43, or 85, or their equivalents.*

57. **Studies in the Literature of the Classical Period.** For Graduate students only. Mj.
ASSOCIATE PROFESSOR REYNOLDS.

[Not to be given in 1904–5.]

58. **Studies in the Beginnings of the Romantic Movement.**—For Graduate students only. Mj.
Spring Quarter, Wed. and Fri.; 4:00.
ASSOCIATE PROFESSOR REYNOLDS.

59. **Studies in the Literature of the Romantic Period.** For Graduate students only. Mj.
ASSOCIATE PROFESSOR REYNOLDS.
[Not to be given in 1904–5.]

62. **The Oxford Movement and English Literature.**
Mj. Spring Quarter; 11:00.
DR. HAMMOND.

67. **American Literature.** — *Poetry.*
Mj. Summer Quarter; 8:00.
MR. BRUÈRE.

68. 1. **American Literature to 1864.**
Mj. Autumn Quarter; 8:30.
MR. BRUÈRE.

68. 2. **American Literature since 1864.**
Mj. Winter Quarter; 8:30.
MR. BRUÈRE.

69. **The Life and Works of Spencer.**—This course is intended primarily for Graduate students, but Senior College students who have passed with credit in English 42 will be admitted. Mj.
ASSISTANT PROFESSOR CARPENTER.
[Not to be given in 1904–5.]

70, 71. **Shakspere.**—A study of all the plays.
2Mj. Autumn and Winter Quarters; 9:30.
ASSISTANT PROFESSOR TOLMAN.
[Not to be given in 1904–5.]

72. **Shakspere in Relation to the Elizabethan Stage.**
Mj. Summer Quarter; 1:30.
PROFESSOR HALE.

72A. **Hamlet.**
M. Second Term, Summer Quarter; 10:30.
PROFESSOR MANLY.

73. **The Sources of Shakspere's Plays.**—For Graduate students only. Mj.
ASSISTANT PROFESSOR TOLMAN.
[Not to be given in 1904–5.]

74A. **Shakspere's** *English Histories.*—Studies in Shakspere's early work, with special reference to his use of historical material.
Mj. Autumn Quarter; 12:00.
DR. HAMMOND.

74B. **Shakspere's Historical Tragedies.**
Mj. Winter Quarter; 12:00.
DR. HAMMOND.

75. **Milton.** Mj. Autumn Quarter; 9:30.
ASSISTANT PROFESSOR CARPENTER.

77. **The Critical Writings of Coleridge.** Mj.
PROFESSOR MACCLINTOCK.
[Not to be given in 1904–5.]

79. **Tennyson and Browning.** Mj.
ASSISTANT PROFESSOR TOLMAN.
[Not to be given in 1904–5.]

80. **English Literature for Teachers.**— A study of typical masterpieces with special reference to the selection of texts and the aims and methods of teaching literature.
M. First Term, Summer Quarter; 9:00.
ASSOCIATE PROFESSOR REYNOLDS.

82. **The Mediæval Drama.**
M. Second Term, Summer Quarter; 9:00.
PROFESSOR MANLY.

83. **The Drama in England before Shakspere.**
Mj. Autumn Quarter; 12:00.
PROFESSOR MANLY.

84. 1, 2. **Problems in the History of the Drama.**— For Graduate students only. Permission of the instructor is necessary for admission to this course.
2Mj. Winter and Spring Quarters; Wed., 4:00–6:00. PROFESSOR MANLY.

85. **The Drama in England from 1580 to 1642.**
Mj. Spring Quarter; 12:00.
ASSISTANT PROFESSOR CARPENTER.

86. **The Drama in the Nineteenth Century.**
ASSISTANT PROFESSOR LOVETT.
[Not to be given in 1904–5.]

87. 1, 2. **The History of the Novel in England.**
Mj. Summer Quarter; 11:30.
MR. LINN.
2Mj. Autumn Quarter; 2:00.
ASSOCIATE PROFESSOR HERRICK.
Winter Quarter; 2:00.
MR. LINN.

88. **Studies in the English Novel.** Mj.
DR. HAMMOND.
[Not to be given in 1904–5.]

89. 1, 2. **Studies in Eighteenth Century Comedy.** For Graduate students only.
ASSOCIATE PROFESSOR REYNOLDS.
[Not to be given in 1904–5.]

91. **Ballad and Epic Poetry.**
Mj. Autumn Quarter; 2:00.
ASSISTANT PROFESSOR TOLMAN.

101. **An Introduction to a Critical Study of Poetry.**
Mj. Summer Quarter; 2:30.
PROFESSOR HALE.

102. 1, 2. **The History of English Literary Criticism.** 2Mj. Winter and Spring Quarters; 11:00.
PROFESSOR MACCLINTOCK.

103. **English Versification.** — A discussion of metrical and rhythmical theories and an historical account of English verse.
Mj. Summer Quarter; 10:30.
DR. HAMMOND.
Mj. Winter Quarter; 3:00.
ASSISTANT PROFESSOR CARPENTER.

105. **The Ring and the Book.**—A study in the methods of Browning. Mj.
ASSISTANT PROFESSOR TOLMAN.
[Not to be given in 1904–5.]

123. **Cowper and the English Romantic Movement.** For Graduate students only. Mj.
PROFESSOR MCCLINTOCK.
[Not to be given in 1904–5.]

124. **The Works of Oliver Goldsmith.**—For Graduate students only.
Autumn Quarter; Wed., Fri., 4:00–6:00.
PROFESSOR MACCLINTOCK.

130. **The Pre-Raphaelite Movement.**
Mj. Winter Quarter; 9:30.
PROFESSOR MACCLINTOCK.

150. **The Bibliography of English Literature.**—For Graduate students only.
Mj. Autumn Quarter, Tues., Thu.; 4:00–6:00.
ASSISTANT PROFESSOR CARPENTER.

XVI. THE DEPARTMENT OF GENERAL LITERATURE.

OFFICERS OF INSTRUCTION.

A. INSTRUCTORS ATTACHED TO THE DEPARTMENT OF GENERAL LITERATURE.

RICHARD GREEN MOULTON, PH.D., *Professor of Literary Theory and Interpretation and Head of the Department of General Literature.*

WILLIAM NORMAN GUTHRIE, A.M., *Lecturer on Literature*, Summer Quarter, 1904.

B. INSTRUCTORS IN OTHER DEPARTMENTS OFFERING COURSES IN THIS DEPARTMENT.

WILLIAM RAINEY HARPER, PH.D., D.D., LL.D., *of the Department of Semitic Languages and Literatures.*
EMIL GUSTAV HIRSCH, PH.D., LL.D., LIT.D., D.D., *of the Department of Semitic Languages and Literatures.*
IRA MAURICE PRICE, D.B., PH.D., *of the Department of Semitic Languages and Literatures.*
ERNEST DEWITT BURTON, D.D., *of the Department of Biblical and Patristic Greek.*
SHAILER MATHEWS, D.D., *of the Department of Biblical and Patristic Greek.*
EDGAR JOHNSON GOODSPEED, PH.D., *of the Department of Biblical and Patristic Greek.*
PAUL SHOREY, PH.D., *of the Department of the Greek Language and Literature.*
GEORGE CARTER HOWLAND, A.M., *of the Department of Romance Languages and Literatures.*
CAMILLO VON KLENZE, PH.D., *of the Department of Germanic Languages and Literatures.*
WILLIAM DARNALL MACCLINTOCK, A.M., *of the Department of English.*
ROBERT HERRICK, A.B., *of the Department of English.*
JAMES WEBER LINN, A.B., *of the Department of English.*

COMMITTEE OF MANAGEMENT.

The Heads and acting Heads of Departments VIII–XV compose the Committee of Management for Department XVI.

INTRODUCTORY.

The Department of General Literature, hitherto known as the Department of Literature (in English), has for its theoretic basis the unity of all literature. The purpose of the Department is, by its own courses and by co-operation with Departments VIII–XV, to afford facilities for the study of literature not limited by the divisions between particular languages and peoples.

The courses of the Department are open to students of the Senior Colleges, and to the Graduate School of Arts and Literature. [Particular courses in Biblical Literature, where it is so specified, but no others, are open to students of the Junior Colleges who have completed twelve Majors.] They are designed for two different classes of students: 1) Those whose main work is remote from literature, but who may desire some literary culture as an element of liberal education; 2) Those who, whether in their Senior College or their Graduate work, desire to specialize in literature.

The work of the Department falls into three sections:

A. The Theory of Literature, including Literary Interpretation and Literary Criticism. For purposes of practical education it is believed to be impossible without the use of literature in translation to obtain a sufficiently wide induction from literary phenomena to make studies like these scientific. In this section knowledge of the original languages of the literatures concerned may or may not be assumed.

B. Comparative Literature, as the term is generally understood. The work of this section will assume knowledge of the original languages of the principal literatures concerned.

C. General Literature (irrespective of divisions between particular languages), treated as a part of general culture rather than specialized study. In this section no knowledge will be assumed of any language other than English.

GRADUATE COURSES.

While any of the Graduate courses offered in this department can be taken by itself, special provision is made for students desiring to specialize in General Literature for the A.M. degree. The requirements as to the higher degrees are as follows:

1) Graduate students offering work in this department for the A.M. (specialist) degree, or as the single secondary subject for the degree of Ph.D., or as the principal subject for the degree of Ph.D., will be required to take courses in Biblical Literature and in Greek-Roman Literature, unless the department is satisfied that adequate work in these studies has been done by the candidate previously.

2) Graduate students offering work in this department for the A.M. (specialist) degree must take not less than three and not more than four Majors in Section A, of which Course No. 40 (or its equivalent) must be one.

3) Graduate students offering work in this department as the single secondary subject for the degree of Ph.D., must take (*a*) at least two Majors in Section B, (*b*) not less than three and not more than four Majors in Section A, of which Course No. 40 (or its equivalent) must be one.

4) Graduate students offering work in this department as the principal subject for the degree of Ph.D., must take at least one-half of their work in Section B, this work involving knowledge of the languages of the principal literatures concerned. They will also be required to take Course No. 40 (or its equivalent), and two more Majors in Section A. [It is not found practicable at present to offer sufficient courses in Section B to render work in this department available as principal subject for the degree of Ph.D.]

RELATED COURSES IN OTHER DEPARTMENTS.

Department XVI being in its nature supplementary to the other language and literature departments (VIII–XV), it will often happen that particular courses in those departments can be substituted for, or used to supplement, courses in general literature. This is especially the case in regard to Section B.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

A. Theory of Literature.

40. Foundation Principles of the Study of Literature.
Mj. Spring Quarter; 9:30.
PROFESSOR MOULTON.

41. Lectures in the Literary Criticism and Rhetoric of the Ancients.—See XI–54.
Mj. Winter Quarter; 3:00.
PROFESSOR SHOREY.

42. The History of English Literary Criticism.
See XV–102, 1, 2.
2Mj. Winter and Spring Quarters; 11:00.
PROFESSOR MACCLINTOCK.

49. Contemporary Poetic Drama, with Special Attention to Dramatic Structure.
M. First Term, Summer Quarter; 11:30,
MR. GUTHRIE.

B. Comparative Literature.

50. Seminar: The Evolution of Nature-Sense in the 18th Century in Germany, France, and England.—Open to Graduate students only. If desired, the course will be conducted in English. See XIV–68.
Mj. Summer Quarter; hrs. to be arranged.
PROFESSOR VON KLENZE.

C. General Literature.

34. Beginnings of Old Testament Literature and History.—See VIII–80.
Mj. Winter Quarter; 11:00.
PROFESSOR W. R. HARPER.

35. The Priestly Element in the Old Testament.—See VIII–81. Mj. Winter Quarter; 9:30.
PROFESSOR W. R. HARPER.

36. The Origin, Growth, and Character of the Prophetic Books.—See VIII–84.
Mj. Autumn Quarter; 3:00.
PROFESSOR PRICE.

37. General Introduction to Rabbinical Literature and Life.—See VIII–120.
Mj. Spring Quarter.
PROFESSOR HIRSCH.

51. General Survey of the New Testament Literature.—See IX–15.
Mj. Spring Quarter; 8:30.
Summer Quarter; 2:00.
PROFESSOR BURTON.

60. Lectures on Greek Literature (Poetry).
Mj. Autumn Quarter; 3:00.
PROFESSOR SHOREY.

61. Spenser's Faerie Queene as a Meeting Point of Classical and Romantic.
Mj. Winter Quarter; 9:30.
PROFESSOR MOULTON.

62. Poetic Outlooks on Life.
M. First Term, Summer Quarter; 9:30.
MR. GUTHRIE.

XVII. THE DEPARTMENT OF MATHEMATICS.

OFFICERS OF INSTRUCTION.

ELIAKIM HASTINGS MOORE, PH.D., *Professor and Head of the Department of Mathematics.*
OSKAR BOLZA, PH.D., *Professor of Mathematics.*
HEINRICH MASCHKE, PH.D., *Associate Professor of Mathematics.*
WILLIAM HOOVER, PH.D., *Non-Resident University Extension Assistant Professor of Mathematics.*
HERBERT ELLSWORTH SLAUGHT, PH.D., *Assistant Professor of Collegiate Mathematics.*
JACOB WILLIAM ALBERT YOUNG, PH.D., *Assistant Professor of the Pedagogy of Mathematics.*
LEONARD EUGENE DICKSON, PH.D., *Assistant Professor of Mathematics.*
GILBERT AMES BLISS, PH.D., *Associate in Mathematics.*
OSWALD VEBLEN, PH.D., *Associate in Mathematics.*
SAUL EPSTEEN, PH.D., *Associate in Mathematics.*

GEORGE W. MYERS, PH.D., *Professor of the Teaching of Mathematics and Astronomy, the School of Education.*
ARTHUR CONSTANT LUNN, A.M., *Instructor in Mathematics, the School of Education.*

FELLOWS.

1904-1905.

NELS JOHAN LENNES, S.B. ROBERT LEE MOORE, S.B.
NORMAN RICHARD WILSON, A.B.

INTRODUCTORY.

INITIAL COURSES IN THE HIGHER MATHEMATICS.

The following courses introductory to the higher Mathematics are intended for students making Mathematics their principal subject, and partly also for those making Mathematics their secondary subject, in particular for students of Astronomy and Physics:

(*A*) †*Differential and integral calculus* (*3Mj*).

(*B*) † *Theory of equations, including determinants* (*2Mj*); *solid analytics.*

(*C*) †*Analytic mechanics* (*2Mj.*); *theoretical mechanics, vector analysis.*

(*D*) †*Advanced calculus, including definite integrals, Fourier series, elements of elliptic integrals and functions, differential equations* (*3Mj*).

(*E*) *Projective geometry; modern analytic geometry; differential geometry* (*2Mj*).

(*F*) †*Elements of the theory of functions* (*2Mj*); *calculus of variations; theory of the potential; elliptic functions; linear differential equations.*

(*G*) *Theory of numbers; theory of invariants; selected chapters of algebra; theory of substitutions with applications to algebraic equations; quaternions.*

The groups (*A*)–(*G*) indicate the permanent constituents of seven sequences of courses running through the usual academic year from October to June. These sequences vary slightly from year to year, the courses marked with a dagger (†) being given annually, and the other courses being given usually once in two years. Special emphasis will be laid upon the application of calculus to the solution of analytical, geometrical, and mechanical problems.

The undergraduate student who wishes to specialize in Mathematics should take (*A*) as Junior College Elective, (*B*) in his first Senior College year, and (*C*) and (*D*) in his second Senior College year.

Candidates for the Master's degree with Mathematics as principal subject are expected to offer for examination the subjects covered by the courses of groups (*A*)–(*D*), and three Majors selected from (*E*)–(*G*), or the equivalents of these subjects, and to present a satisfactory thesis on an assigned topic closely related to one of these subjects.

Candidates for the Doctor's degree with Mathematics as secondary subject are expected to offer for examination the subjects covered by the courses of groups (*A*)–(*D*), and one Major selected from (*E*)–(*G*), or the equivalents of these subjects.

SPECIAL COURSES IN THE HIGHER MATHEMATICS.

The science of Mathematics embraces the four highly related but independent sciences: Algebra and Arithmetic, Analysis, Geometry, and Mechanics.

The department offers the following courses in the higher Mathematics :

Algebra and Arithmetic.—Initial courses in groups (*B*) and (*G*), and special courses as follows: *Linear substitution groups; congruence groups; abstract groups; algebraic numbers; general arithmetic; and research Seminars.*

Analysis.—Initial courses in groups (*A*), (*D*), and (*F*), and special courses as follows : *Theory of functions of real and of complex variables; Lie's theory of differential equations; continuous groups; elliptic functions; hyperelliptic functions; Abelian functions; elliptic modular functions; and research Seminars.*

Geometry.—Initial courses in groups (*B*) and (*E*), and special courses as follows : *Differential geometry; higher plane curves; algebraic surfaces; Lie's theory of differential equations; continuous groups; linear substitution groups; and research Seminars.*

Mechanics.— Initial courses in groups (*C*) and (*F*). Special courses in Mechanics, and especially in Celestial Mechanics, are offered by the Department of Astronomy, while special courses in Theoretical Physics are offered by the Department of Physics.

The initial and special courses in the higher Mathematics are intended to give the graduate student a comprehensive view of modern Mathematics, to develop him to scientific maturity, and to enable him to follow, without further guidance, the scientific movement of the day, and, if possible, to take an active part in it by creative research. The special courses and the research Seminars vary from year to year.

Candidates for the Doctor's degree with Mathematics as principal subject are expected to present a dissertation, in finished form, embodying valuable results of mathematical inquiry, and to offer for examination the subjects covered by the initial courses of groups (*A*)–(*G*), and by a considerable body of special courses, in each case presumably most closely related to the subject of the candidate's dissertation.

GENERAL STATEMENT TO STUDENTS OF MATHEMATICS.

Students of Mathematics should understand that the proper arrangement of their course of study in Mathematics is a matter of extreme importance. The best arrangement for a particular student is apt to

depend on his previous mathematical career, and can be determined often only by conference between the student and a member of the staff of the department. The members of the staff are at all times ready to arrange for such conferences.

THE SUMMER QUARTER.

The courses of the Summer Quarter are designed to meet the needs of those college men and others wishing to study advanced Mathematics, who are able to spend only the summer in residence. The courses of a series of four summer Quarters will be arranged so as to give a wide view of modern Mathematics. Every summer there is given a course on the Pedagogy of Mathematics.

The attention of any student wishing the guidance of the department in his continuation of the work done in the summer is called to the correspondence courses of the department, which are given under the auspices of the University Extension Division of the University.

FELLOWSHIPS IN MATHEMATICS.

To students in Mathematics are usually assigned three or four Fellowships. These Fellowships are assigned to those students excelling in their mathematical acquisitions and scholarly abilities who exhibit strongest evidences of marked creative ability in Mathematics. It is a distinct advantage to candidates to have been at least one year in residence at the University. Candidates should file with the President of the University (on application blanks to be secured from the President's Secretary) records of their previous work and distinctions, degrees, and past courses of study, with copies of their written or printed work in Mathematics. Applications should be filed before March 1 of each year. The appointments are made during the first week of April.

Fellows agree not to give private tuition, and may be called upon for assistance in any departmental teaching or other work; in no case, however, will a Fellow be expected or permitted to devote more than one sixth of his time to such service.

SCHOLARSHIPS IN MATHEMATICS.

Senior College Scholarship.—This Scholarship is awarded annually at the Summer Convocation to that student admitted to the Senior College during the preceding year who did the best Junior College work in Mathematics. In judging of the work of each candidate for this Scholarship the department considers (*a*) the general quality of his Junior College work; (*b*) the quantity and the quality of his Junior College work in Mathematics; (*c*) the results of the Senior College Scholarship Examination on the subjects: *Trigonometry, College Algebra, and Analytical Geometry.*

Graduate Scholarship.—This Scholarship is awarded annually at the Summer Convocation to that student admitted to the Ogden Graduate School during the preceding year who has been named by the department as the Senior College honor student in Mathematics. In judging of the work of each candidate for this Scholarship the department considers (*a*) the quantity and the quality of his Senior College work in Mathematics; (*b*) the results of the Graduate Scholarship Examination on the subjects: *Differential and Integral Calculus, Theory of Equations, Solid Analytics, and Advanced Integral Calculus;* (*c*) his promise of success as a graduate student of Mathematics.

Scholarship Examinations.—The Senior College Scholarship Examination and the Graduate Scholarship Examination are held every Spring Quarter at times and places duly announced in the *Weekly Calendar* or the *University Record.* Prospective candidates should confer with the Departmental Examiner. Files of papers set at previous Scholarship Examinations are accessible in the Departmental Library.

MATERIAL FACILITIES OF THE DEPARTMENT.

Library.—The Mathematical Library occupies Room 37 of the Ryerson Physical Laboratory, adjacent to the lecture-rooms of the department, and is open for the use of graduate students from 8:30 A.M. to 6:00 P.M. The library contains the more important mathematical periodicals, collected works, treatises, and text-books.

Models.—A collection of Brill's models: Plaster and thread models of quadric surfaces, plaster models of cubic and Kummer's quartic surfaces, models of cyclides and surfaces of constant positive and negative curvature, and thread models of three-dimensional projections of four-dimensional regular bodies.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

9. **The Mathematics of Insurance.**—This course presupposes some acquaintance with the descriptive aspect of insurance. The course is devoted particularly to the mathematical principles of Life Insurance. The necessary elements of theory are selected from the theories of probabilities, finite differences and interpolation. Applications are made in particular to the following problems: The examination of the different mortality tables and the basing of mortality rates thereon; the loading for expenses and reserves and the variations of premiums as affected by the prospective earnings of investments; the computation of total reserves; the fixation of loan and surrender values of paid-up insurance whether by life or term extension; the computation of present and deferred annuities as affected by considerations of age, life, term, endowment, joint life, and annuity policies.

Mj. Spring Quarter; 12:00.
Dr. Epsteen.

Prerequisites: *Trigonometry and College Algebra (Courses 1, 2; 1, 5; or 4, 5) and Political Economy 7 (Insurance).*

15. **Calculus** (shorter course).—The fundamental principles and the general methods will be carefully studied, and illustrated by simple applications arising in mathematics and the physical sciences. Mj. Spring Quarter; 11:00.
Mj. Summer Quarter; 11:30.
Assistant Professor Young.

Prerequisite: *Trigonometry and College Algebra (Courses 1, 2; or 1, 5; or 4, 5). Analytic Geometry (Course 3 or 6) is desirable but not indispensable.*

This course is intended for those who do not wish to take the longer course in Calculus (three quarters), but who, nevertheless, desire to round out their previous mathematical work with some knowledge of a subject of such great importance, both in pure mathematics and the natural sciences, as the Calculus. Certain students expecting to take the longer course in Calculus may advisedly take this course as an introductory course.

Students of the College of Science may take Course 15 instead of Course 3 as a required course.

17. **Integral Calculus.**—An elementary course.

Mj. Summer Quarter; 1:30.
Assistant Professor Slaught.

Prerequisite: *Differential Calculus.*

18, 19, 20. **Calculus I, II, III.**—The fundamental principles and processes of the differential and integral calculus, with constant use of graphical methods and with much attention to the solving of problems illustrating all phases of the theory and certain important applications to geometry and mechanics and physics. Laboratory method.

Three consecutive Majors. Autumn, Winter, and Spring Quarters; 2:00–4:00.

Professor Moore.

Prerequisite: *Courses 1, 2, 3, or their equivalent.*

Note.—A student exceptionally strong in Courses 1 and 2 may, after conference with the instructor, enter Course 18 without having taken Course 3.

Senior College Courses.

25. **Surveying and Navigation.** — This Course includes practical work with surveying instruments.

Mj. Summer Quarter; 1:30–3:30.
Mr. ———.
Mj. Autumn Quarter; 8:30–10:30.
Dr. Epsteen.
Mj. Spring Quarter. Mr. ———.

Prerequisite: *Courses 1, 2; 1, 5, or 4, 5.*

Note.—The registration is limited to twelve. To cover cost of repairs to instruments each student makes a deposit of $5.00 with the Registrar.

31. **Solid Analytics and Determinants.**

Mj. Autumn Quarter; 12:00.
Associate Professor Maschke.

Prerequisite: *Plane Analytics and Calculus.*

32. **Advanced Algebra.**—Determinants. The complex number system (of ordinary algebra). Roots of unity. Infinite series.

Mj. Summer Quarter; 8:00.
Assistant Professor Slaught.
Mj. Winter Quarter; 12:00.
Dr. Bliss.

Prerequisite: *Plane Analytics and Differential Calculus.*

36. **Advanced Integral Calculus.**—The theory of simple and multiple definite integrals with applications to geometry.

Mj. Summer Quarter; 10:30.
PROFESSOR BOLZA.

Prerequisite: *Differential and Integral Calculus.*

37. **Advanced Calculus, I:** *Differential Equations.*—With especial attention to the applications.

Mj. Autumn Quarter; 8:30.
MR. LUNN.

Prerequisite: *Differential and Integral Calculus.*

38, 39. **Advanced Calculus, II;** *Definite Integrals,* III; *Elliptic Integrals.*—With especial attention to the applications.

2Mj. Winter and Spring Quarters; 8:30.
ASSISTANT PROFESSOR SLAUGHT.

Prerequisite: *Course 37.*

[ASTRONOMY 5A] **Analytic Mechanics.**—An introductory course. Mj. Summer Quarter; 9:00.
ASSISTANT PROFESSOR LAVES.

[ASTRONOMY 5, 6] **Analytic Mechanics.**—An introductory course.

2Mj. Autumn and Winter Quarters; 9:30.
ASSISTANT PROFESSOR MOULTON.

44. **Practice Teaching of Mathematics by the Laboratory Method.**—For teachers and advanced students who expect to become teachers of Mathematics. Practice work in the laboratory teaching of classes in Algebra, Plane and Solid Geometry, Trigonometry, College Algebra, Analytics and Calculus. Those wishing to register will confer in advance with Professor Moore.

Information as to the laboratory method in Mathematics (Practical Mathematics, Concrete Mathematics, the Perry Movement in England) may be secured from the columns of *School Mathematics* (Ravenswood, Chicago).

45A, B, C, D. **Mathematical Reading and Research.** When in the judgment of the department it is advisable that students undertake definite mathematical reading and research not closely connected with any current lecture course or seminar, this work will be directed by one or other of

PROFESSORS MOORE, BOLZA, MASCHKE, DICKSON.

61. **Conferences on the Pedagogy of Mathematics.** Selected topics from the teaching of preparatory and collegiate mathematics will be considered.

Mj. Summer Quarter; at hours to be arranged.
ASSISTANT PROFESSOR YOUNG.

Attention is called to the courses in Mathematics given in the School of Education.

78. **Multiple Algebra and Quaternions.**—An introduction to the theory of hypercomplex numbers, in general, with particular attention to quaternions and matrices.

Mj. Summer Quarter; 9:30.
PROFESSOR BOLZA.

Prerequisite: *Theory of Equations, Solid Analytics, and a certain general maturity.*

81, 82. **Finite Groups with Applications I, II.**—Substitution groups in connection with the theory of algebraic equations; abstract groups; linear congruence and collineation groups; rotation groups and the simpler of Klein's two treatments of equations of the fifth degree. Seminar discussion of recent results, in particular those of Frobenius.

2Mj. Autumn and Winter Quarters; 8:30.
ASSISTANT PROFESSOR DICKSON.

Prerequisite: *Theory of Functions.*

84. **Continuous Groups and Differential Equations.**—An illumination of the fundamental concepts and theorems of the Lie theory in connection with various classes of problems of geometry and differential equations.

Mj. Spring Quarter; 8:30.
DR. BLISS.

Prerequisite: *Theory of Functions.*

118, 119. **Calculus of Variations, I, II.**—An advanced course on the theory of maxima and minima of definite integrals, with numerous applications to problems of geometry and mechanics.

2Mj. Autumn and Winter Quarters; 11:00.
PROFESSOR BOLZA.

Prerequisite: *Advanced Integral Calculus,* and a certain general maturity.

121, 122. **Theory of Functions of a Complex Variable, I, II.**—Introduction to the theories of Cauchy, Riemann, and Weierstrass.

2Mj. Autumn and Winter Quarters; 12:00.
PROFESSOR BOLZA.

Prerequisite: *Advanced Calculus, I, II, III.*

125. **Linear Differential Equations.**—The general theory with particular reference to differential

equations of second order. Special study of the hypergeometric function.

Mj. Spring Quarter; 12:00.
PROFESSOR BOLZA.

Prerequisite: *Courses 121, 122.*

128. **Partial Differential Equations.**—With applications to geometry and physics.

Mj. Summer Quarter; 11:00.
ASSOCIATE PROFESSOR MASCHKE.

Prerequisite: *Theory of Functions.*

131. **Projective Geometry.** — An introductory course.

Mj. Summer Quarter; 12:00.
ASSOCIATE PROFESSOR MASCHKE.

132. **Foundations of Projective Geometry.**

Mj. Spring Quarter; 11:00.
DR. VEBLEN.

141. **Modern Analytic Geometry.** —Homogeneous (trilinear) co-ordinates; projective properties of conics. Mj. Autumn Quarter; 11:00.
ASSOCIATE PROFESSOR MASCHKE.

Prerequisite: *Courses 31, 32, 37, 38, 39.*

142. **Higher Plane Curves.**—General properties of algebraic curves. Special study of the curves of the third and fourth order.

Mj. Winter Quarter; 11:00.
ASSOCIATE PROFESSOR MASCHKE.

Prerequisite: *Course 141.*

157. **Vector Analysis.**—The elements of vector algebra, vector differentiation and integration, and the linear vector function; illustrated by typical applications to geometry, mechanics and physics. Mj. Spring Quarter; 2:00.
MR. LUNN.

Prerequisite: *Advanced Calculus, I.*

158. **Theory of the Potential.**—With applications to problems of mechanics and physics. Spherical and cylindrical harmonics, with application to the theory of the potential.

Mj. Winter Quarter; 9:30.
ASSOCIATE PROFESSOR MASCHKE.

Prerequisite: *Course 121.*

THE SEMINARS.

Advanced students engaged in or prepared to undertake research work may, on approval of its Director, enter one of the Seminars. The individual members of a Seminar from time to time report to the Seminar on their investigations or on assigned topics. Each Seminar considers in particular certain topics; these topics vary somewhat from year to year. The research work of candidates for the doctorate receives particular attention and direction.

171, 172, 173. **Seminar A.**—A general Seminar. Selected topics in general arithmetic, Galois' theory of equations, the theory of groups of differential equations, theory of functions of real variables—in particular, questions of a critical nature.

3 Mj. Autumn, Winter, Spring Quarters; Saturdays, 8:30–10:30.
PROFESSOR MOORE.

173. **Seminar B.**—Selected topics of the Calculus of Variations. In continuation of Courses 118, 119.

Mj. Spring Quarter; at hours to be arranged.
PROFESSOR BOLZA.

XVIII. THE DEPARTMENT OF ASTRONOMY AND ASTROPHYSICS.

OFFICERS OF INSTRUCTION.

GEORGE ELLERY HALE, S.B., Sc.D., *Professor of Astrophysics, and Director of the Yerkes Observatory.*

SHERBURNE WESLEY BURNHAM, A.M., *Professor of Practical Astronomy, and Astronomer in the Yerkes Observatory.*

EDWARD EMERSON BARNARD, A.M., Sc.D., *Professor of Practical Astronomy, and Astronomer in the Yerkes Observatory.*

EDWIN BRANT FROST, A.M., *Professor of Astrophysics, and Astrophysicist in the Yerkes Observatory.*

KURT LAVES, A.M., Ph.D., *Assistant Professor of Astronomy.*

FOREST RAY MOULTON, A.B., Ph.D., *Assistant Professor of Astronomy.*

GEORGE WILLIS RITCHEY, *Instructor in Practical Astronomy, and Superintendent of Instrument Construction at the Yerkes Observatory.*

FERDINAND ELLERMAN, *Instructor in Astrophysics at the Yerkes Observatory.*

WALTER SIDNEY ADAMS, A.M., *Instructor in Astrophysics at the Yerkes Observatory.*

STORRS BARROWS BARRETT, A.B., *Secretary and Librarian of the Yerkes Observatory.*

HERBERT M. REESE, Ph.D., *Assistant at the Yerkes Observatory.*

FELLOWS.

1904-1905.

FRANK L. GRIFFIN, S.B. PERRY W. JENKINS, A.B.

INTRODUCTORY.

The work of the Department of Astronomy and Astrophysics naturally divides itself into two parts:

1. Work at the University, comprising: (*a*) elementary instruction in general Astronomy, both theoretical and practical; (*b*) preliminary training in the principles and methods of work underlying the science of Astrophysics, given in part in the undergraduate and graduate courses offered by the Department of Physics; (*c*) graduate and research work in Celestial Mechanics.

2. Graduate and research work in Practical Astronomy and Astrophysics in the Yerkes Observatory at Lake Geneva.

Graduate Students working for the Master's degree are recommended to choose *three Majors* in the Department of Mathematics, viz.: Differential Equations 1; Theory of Equations 2; or in the Department of Physics, viz.: Advanced General Physics 3; and *six Majors* in the Department of Astronomy.

Candidates for the degree of Doctor of Philosophy are expected to make their secondary subject either Mathematics or Physics. Students intending to specialize in the lines of Astrophysics will be required to take the work in Theoretical Physics, Advanced Experimental Physics, Sound and Light, and Physical Manipulation.

The Club meets fortnightly on Fridays at 4:00 P.M. in the Ryerson Physical Laboratory, Room 35, for the review of memoirs and books, and for the presentation of results of research. The Club is conducted by the members of the Faculties of Mathematics and Mathematical Astronomy. Graduate students of Mathematical Astronomy are expected to attend regularly and, so far as possible to participate actively in the meetings of the Club.

The Astronomical Library is open to graduate students under the same conditions as the Mathematical Library, with which it is associated. The Astronomical Library includes many of the fundamental works on Astronomy, several sets of annals, and a number of journals.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

At the University.

SENIOR COLLEGE COURSES (5–20).

5, 6. **Analytic Mechanics.**—Two consecutive quarters. An introductory course.

Mj. Autumn Quarter; 9:30.
Mj. Winter Quarter; 9:30.
ASSISTANT PROFESSOR MOULTON.

Prerequisite: *Differential and Integral Calculus.*

5A. **Elementary Analytic Mechanics.**

Mj. Summer Quarter; 9:00.
ASSISTANT PROFESSOR LAVES.

7, 8. **Spherical and Practical Astronomy.**—An introductory course. W. W. Campbell's *Practical Astronomy* (Macmillan, 2d ed.) is used as a textbook with ample references to Brünnow's, Chauvenet's, and André's more extended texts. Observations with the 3-inch broken Transit instrument and 6½-inch Equatorial are conducted in the Student's Observatory.

Mj. Winter Quarter; 11:00.
Mj. Spring Quarter; 11:00.
ASSISTANT PROFESSOR LAVES.

9. **Observatory Work.**—Practice with the Equatorial, Theodolite, and Transit instrument in the Students' Observatory.

Mj. Summer Quarter, Evening Sessions.
ASSISTANT PROFESSOR LAVES AND ———.

Prerequisite: *Courses 3 and XVII, 1–2.*

10. **Introduction to Geodesy.**

Mj. Winter Quarter; 12:00.
ASSISTANT PROFESSOR LAVES.

GRADUATE COURSES.

22 **Introduction to Celestial Mechanics I.**—Central forces; demonstration of law of gravitation; problem of two bodies; the ten integrals of planetary motion; considerations on perturbations; Helmholtz theory of the heat of the sun.

Mj. Winter Quarter; 8:30.
ASSISTANT PROFESSOR MOULTON.

Prerequisite: *Course 5.*

23. **Introduction to Celestial Mechanics II** (Determination of Orbits and Special Perturbations).—Properties of conic section motion; determination of two geocentric distances from the observations; determination of elements, and methods of improving them; variations of elements; perturbations of rectangular and polar co-ordinates; numerical differentiation and integration. Mj. Spring Quarter; 8:30.
ASSISTANT PROFESSOR MOULTON.

24. **The Problem of Three Bodies.**

Mj. Summer Quarter; 9:30.
ASSISTANT PROFESSOR MOULTON.

25. **Dynamics of a System of Bodies.**

Mj. Autumn Quarter; 8:30.
ASSISTANT PROFESSOR MOULTON.

35. **The Lunar Theory.** Mj. Spring Quarter; 7.30.
ASSISTANT PROFESSOR MOULTON.

Courses 5, 6, 7, 8, 22, and 23 are repeated annually. The other courses are given at intervals of two or three years. For general direction the following courses are mentioned, which were given during the last two or three years and which will reoccur in the announcements in due time; viz.:

Course 23A. The Construction of Astronomical Ephemerides.

Courses 34 and 34A. Absolute Perturbations.

Course 38. Modern Theories of Celestial Mechanics I (Poincaré's investigations).

Course 39. Modern Theories of Celestial Mechanics II (Poincaré's investigations).

Course 40. Theory of Satellites of Jupiter and Saturn.

Course 42. Attractions and Figures of the Heavenly Bodies.

At the Yerkes Observatory.

In the work at the Yerkes Observatory the advanced student is made familiar with modern methods of research in various branches of Practical Astronomy and Astrophysics. In general, the work in progress during the year 1904–5 will probably include: researches in solar physics with the spectroscope, spectroheliograph, and photoheliograph; micrometric observations of double stars, planets, satellites, nebulæ, and comets;

photographic studies of stellar spectra and determinations of motions in the line of sight; photography of star clusters, nebulæ, etc.; photographic investigations of stellar parallax; special astrophysical researches. On account of the nature of the Observatory's work, it is possible that the subjoined outline of courses will require some modification. Graduate students wishing to take any of the courses should consult the Director of the Yerkes Observatory, Williams Bay, Wis., before making a selection.

Hours are to be arranged with the instructor.

GRADUATE COURSES.

51. **Astronomical Spectroscopy.**—This is a general course on the applications of the spectroscope in astronomy, with practical work.

Mj. Summer Quarter.
PROFESSOR FROST.

Prerequisite: *Practical Astronomy, Theoretical and Experimental Physics.*

52, 53, 54, 55. **Solar Physics.**—This course includes systematic observational work with the telescope and spectroscope, supplemented by constant reference to the literature of the subject.

52. Visual and photographic study of the solar photosphere, spots, and faculæ. Use of the photoheliograph. DMj. Summer Quarter.

53. Visual and photographic observations of the chromosphere, prominences, faculæ, and spots with the solar spectroscope and spectroheliograph. DMj. Autumn Quarter.

54. Measurement and reduction of photographs made with the solar spectrograph, photoheliograph, and spectroheliograph.

DMj. Winter Quarter.

55. Spectroscopic observations of sun-spots, including the systematic study of widened lines. DMj. Spring Quarter.
PROFESSOR HALE.

Prerequisites: Same as for *Astronomical Spectroscopy.*

56. **Stellar Spectroscopy.** — This course, like the preceding ones, consists of systematic observational work combined with a constant study of original memoirs. The student will assist in making and in measuring photographs of stellar spectra.

56. The photographic determination of stellar motions in the line of sight.

DMj. Summer Quarter.
2DMj. Autumn and Spring Quarters.
PROFESSOR FROST.

57. **Celestial Photometry.**—A course dealing mainly with the theoretical principles, and based upon Müller's *Photometrie der Gestirne.*

Mj. Autumn Quarter.
PROFESSOR FROST.

58. **Astronomical and Astrophysical Research.** — Students qualified for research will be given opportunity for special investigations in Astronomy and Astrophysics.

PROFESSORS HALE, BARNARD AND FROST.

XIX. THE DEPARTMENT OF PHYSICS.

OFFICERS OF INSTRUCTION.

ALBERT ABRAHAM MICHELSON, PH.D., SC.D., LL.D., F.R.S., etc., *Professor and Head of the Department of Physics.*
SAMUEL WESLEY STRATTON, S.B., *Professor of Physics.*
CHARLES RIBORG MANN, PH.D., *Assistant Professor of Physics.*
ROBERT ANDREWS MILLIKAN, PH.D., *Assistant Professor of Physics.*
CARL KINSLEY, A.M., M.E., *Assistant Professor of Physics.*
GLENN MOODY HOBBS, S.B., *Instructor in Physics.*
HENRY GORDON GALE, PH.D., *Instructor in Physics.*
GEORGE WINCHESTER, S.B., A.B., *Lecture Assistant in Physics.*

A. D. COLE, *Professor of Physics, Ohio State University* (Summer Quarter, 1904).
FRANK BALDWIN JEWETT, PH.D., *Instructor in Physics, Massachusetts Institute of Technology* (Summer Quarter, 1904).

FELLOWS.

1904-1905.

WILLIAM PORTER BECK, S.B. OLIVER C. CLIFFORD, A.B.
ARTHUR GRANT STILLHAMER, S.B.

INTRODUCTORY.

The courses of instruction to be given in the Department of Physics, it is believed, are sufficiently varied to suit the requirements of all classes, including those who desire simply to complete a general education, or to undertake the subject as a disciplinary study; those who wish to pursue it as a preliminary to its application to mechanical, electrical, or civil engineering; or those who intend to make it their life-work.

In each case every opportunity will be taken to present the subject in such a way as to impress the student with the reality of the principles and laws expounded by well-chosen experiments, performed by the instructor and whenever possible by the student himself.

A feature on which considerable stress will be laid is the repetition of the classical experiments of eminent investigators by those graduate students who are able to undertake them.

It is believed that by this means a great deal of valuable experience will be gained, without the vexatious annoyances encountered in entering upon an original investigation, before having the benefit of such preliminary training.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course = a double course (two hours daily) for six weeks. Mj = Major course = a single course for twelve weeks. DMj = Double Major course = a double course (two exercises daily) for twelve weeks.

GRADUATE COURSES.

31. **Theoretical Physics.**— A series of lectures, chiefly in Theoretical Physics, Hydrodynamics, Elasticity, Capillarity, Molecular Physics, Thermodynamics, Wave-motion and Sound. Optical Theories, Electricity and Magnetism, 4 hrs. a week. Mj. Autumn Quarter; 12:00.
Mj. Winter Quarter; 12:00.
Mj. Spring Quarter; 12:00.
PROFESSOR MICHELSON.

Prerequisite: *Physics 11, 12 and 13.*

32. **Experimental Physics.** — A course of laboratory work, chiefly devoted to the repetition of classical experiments, such as: Determination of the Mechanical Equivalent of Heat, Maxwell's "V" Hertzian Oscillation, Relative and Absolute Wave-lengths, etc.
10 hrs. a week. Mj.
Autumn, Winter, Spring Quarters.
PROFESSOR MICHELSON AND DR. GALE.

Prerequisite: *Physics, 16, 17, and 18.*

33. **Research Course.** — This course is intended for those graduate students who are prepared to undertake special research.

Except in the case of a purely mathematical problem, the entire time is to be devoted to work in the laboratory.
20 hrs. a week. Every Quarter.
DMj. Summer Quarter.
ASSISTANT PROFESSOR MILLIKAN.
3DMj. Autumn, Winter, and Spring Quarters.
PROFESSOR MICHELSON AND DR. GALE.

34. **Introduction to Mathematical Physics.**—A course designed to familiarize the student with the most important applications of Mathematics to Physics, such as the use of certain classes of Differential Equations, Elliptic Integrals, Fourier's Series, Calculus of Variations, etc.
Mj. Autumn Quarter; 2:00.
DR. GALE.

35. **Dynamics.**—A course covering selected problems in Dynamics of a Particle, Rigid Dynamics and Hydrodynamics, special attention being given to the solution of problems by the class.
Mj. Winter Quarter; 2:00.
DR. GALE.

36. **Thermodynamics.** — Lectures upon the fundamental principles underlying the mechanical

theory of heat and the application of these principles to physical and thermochemical problems.

5 hrs. a week. Mj. Winter Quarter; 2:00.
ASSISTANT PROFESSOR MILLIKAN.

37. **Recent Developments of the Kinetic Theory.**—A course of graduate lectures covering the work of the last ten years on the electrical properties of gases; the electron theory, and radioactivity.
5 hrs. a week. Mj. Summer Quarter; 8:30.
ASSISTANT PROFESSOR MILLIKAN.

38. **Experimental Electricity.**—A laboratory course in practical electricity involving a study of dynamos, motors, and transformers. 10 hrs. a week.
Mj. Summer Quarter; 10:30–12:30.
ASSISTANT PROFESSOR KINSLEY.

39. **Electric Waves.**—A discussion of the theory of the generation and detection of electric waves, of stationary waves on wires, and of electric resonance. 5 hrs. a week.
ASSISTANT PROFESSOR KINSLEY.
[Not to be given in 1904–5.]

40. **Seminar:** *History of the Development of Physical Ideas.*
3Mj. Autumn, Winter, and Spring Quarters; 4:00. ASSISTANT PROFESSOR MANN.

41. **The Development of Scientific Thought**—A discussion of the growth of scientific thought from the standpoint of physical theories. Open to undergraduates.
5 hrs. a week.
Mj. Spring Quarter; 8:30.
ASSISTANT PROFESSOR MANN.

42. **The Theory of Alternating Currents.**
Mj. Summer Quarter; 9:00.
DR. JEWETT.

43. **Sound.**—A demonstration lecture course on Sound, involving a discussion of theories of sound and music, with especial reference to their practical applications. Open to undergraduates.
Mj. Spring Quarter; 3:00.
MR. HOBBS.

XX. THE DEPARTMENT OF CHEMISTRY.

OFFICERS OF INSTRUCTION.

JOHN ULRIC NEF, PH.D. *Professor and Head of the Department of Chemistry.*
ALEXANDER SMITH, PH.D., *Professor and Director of General and Physical Chemistry.*
JULIUS STIEGLITZ, PH.D., *Associate Professor of Chemistry.*
HERBERT NEWBY McCOY, PH.D., *Assistant Professor of Physical Chemistry.*
JOHN C. HESSLER, PH.D., *Instructor in Chemistry.*
LAUDER W. JONES, PH.D., *Instructor in Analytical Chemistry.*
WILLIS B. HOLMES, PH.D., *Associate in Chemistry.*
——— ———, *Research Assistant in Chemistry.*
EDITH E. BARNARD, S.B., *Assistant in Quantitative Analysis.*
JAMES LAWRIE, S.B., *Lecture Assistant in Chemistry.*
OSCAR ECKSTEIN, SC.D., *Research Assistant in Chemistry.*
WALTER FULLER, *Laboratory Inspector.*

HORACE G. BYERS, PH.D., *Professor of Chemistry, University of Washington* (Summer Quarter, 1904).

WALTER STANLEY HAINES, A.M., M.D., *Professor of Chemistry, Pharmacy, and Toxicology, Rush Medical College; Professorial Lecturer on Toxicology.*

FELLOWS.
1904–1905.

GEORGE ALONZO ABBOTT, S.B., A.M.
WAYLAND BLAIR CLARK, S.B., S.M.
WILLIAM LLOYD EVANS, S.B.
HENRY MAX GOETTSCH, S.B.,
WILLIS STOSE HILPERT, S.B.
HERMANN IRVING SCHLESINGER, S.B.

INTRODUCTORY.

The work of the department is divided between research and instruction, in both of which every officer takes part.

Research.—Research Students in the University, or coming from other institutions, are encouraged to begin research if, and as soon as, their preparation justifies it. Facilities for research in all lines, whether of inorganic, organic, or physical chemistry, are provided.

Special opportunities to pursue entirely independent research work will be given to maturer students who have already obtained the doctor's degree.

Instruction.—The objects of the instruction are to prepare students, (1) to teach in colleges or universities, (2) to teach in secondary schools (3) to fill positions as technical experts or assistants in chemical industries, (4) to become analysts in commercial or sanitary laboratories. The elementary courses may be taken with advantage by students having none of these ends in view.

The courses from which students of the above classes select their work include: General Chemistry, four and one-half Majors and Research; Analytical Chemistry, eleven and one-half Majors; Organic Chemistry, nine and one-half Majors and Research; Inorganic Chemistry, seven Majors and Research; Physical Chemistry, five Majors and Research; Teaching of Chemistry, History of Chemistry, and Club meetings.

Special stress will be placed on thorough preparation and symmetrical development of the student's knowledge. The object of the courses will be not so much to train specialists as to prepare the student to undertake intelligently any and every kind of work of a chemical nature. Those intending to become practical chemists will find a thorough course of purely scientific chemistry the best basis for future specialization in any direction whatever. Those who incline towards inorganic chemistry will be required to do much physical and a considerable amount of organic work; those proposing to become organic chemists will be required to do work in inorganic chemistry of a more advanced nature than that given in the elementary and analytical courses, and some physical chemistry, and so forth.

REQUIREMENTS FOR HIGHER DEGREES.

The Degree of Ph.D.: Chemistry as Major Subject.—The requirements for the degree of Doctor of Philosophy (for general University regulations, see the *Annual Register*, 1903–4) are:

1) The presentation of a thesis embodying the result of original research in general inorganic, organic, physico-organic, or physical chemistry. This must constitute a real contribution to knowledge, and the work is usually done under the direction of an officer of the department.

2) Specially thorough and mature knowledge of the branches of chemistry touched by the thesis, and less thorough but sufficient knowledge of other fundamental branches of the science.

The general requirements* for all candidates are as follows: Courses 1–3 (or 1A, 2A), 4†, 6–9, 28A, 28B, and two Majors selected from Courses 10, 11, 13A–13G, 14–16; total twelve Majors, of which eight Majors are undergraduate work.

Special requirements* in addition to the above, arranged according to the thesis subject, are as follows:

General Chemistry: Courses 25–27, 20 or 31, and two Majors taken from Courses 13, 14, 15, 16, 19, 21, 22, 29–32; total six Majors.

Organic Chemistry: Courses 6, 20–22, 25, and one Major from 10, 13, 19, 26, 27, 29–32; total six Majors.

Physico-Organic Chemistry: Courses 15, 20, 21, 25, and 22 or 31, and one Major taken from Courses 10, 13, 19, 26, 27, 29–32; total six Majors.

Physical Chemistry: Courses 25, 26, 31, 32, and two Majors taken from Courses 10, 13, 14, 16, 19, 20–22, 27; total six Majors.

In addition to one set of these specific requirements*, at least six half Majors will be chosen from the special lecture courses, 23, 29, 30, 34–38, 40, 42. The research work will require from four to six Quarters.

3) Sufficient work in one or two minor subjects. For instance, if Physics is a minor subject, two years of College Physics, Courses 1, 2, 3, and three of the Courses 11, 12, 13, 16, 17, 18. Mineralogy and crystallography (about 1½ Majors) are required of all candidates, in addition to the regular minor subject.

4) A reading knowledge of French and German is required of candidates for higher degrees.

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*It is understood that the requirement may be satisfied by equivalent work done in other institutions of high standing. At least four and a half quarters of resident graduate work must usually be taken in the University of Chicago.

†Course 4 may be omitted when advanced lecture and laboratory work in Organic Chemistry is taken.

The Degree of Ph.D.: Chemistry as Secondary Subject.—When chemistry is a secondary subject, the requirement is determined after conference with the Head of the Department in which the major work is done. In the past it has consisted of Courses 1, 2, 3, 6, 7, 8, or their equivalent, together with elementary physical chemistry (28A and 28B) or organic chemistry, according as the major subject belonged to the physical or the biological group.

The Master's Degree.—For the specialist Master's degree a dissertation and seven Majors of graduate work in chemistry are required. These must be selected from Courses 10 to 42, with the approval of the Head of the Department. Courses prerequisite to these must be taken, but cannot be counted in reckoning the seven required Majors. For the non-specialist degree the selection may be made from Courses 8 to 42, with the approval of the Heads of the three Departments concerned.

PREPARATION FOR TEACHING AND TECHNICAL POSITIONS.

For Teaching.—While the Department does not usually recommend for college or university positions students who have not taken the work required for the doctor's or master's degree, the degree of bachelor, with a sufficient amount of work in chemistry is at present considered preparation for teaching in secondary schools.

In general the work in chemistry should include Courses 1, 2, 3, 4, 6, 7, 8, 28A, 28B, and 40, or their equivalent, as well as work in the College of Education (see pp. 129 ff. of the *Annual Register*, 1903–4). The latter is given by the College of Education in connection with the University High School, and opportunities are also offered for giving laboratory instruction in the elementary classes of the University. The prospective teacher should secure preparation to teach at least one science besides chemistry.

For Technical Positions.—

1. The thorough scientific training in all branches of chemistry required for the attainment of the Ph.D. degree forms the best basis for a future career as a chemical expert in any branch of chemical industry.

2. Students who have taken from 10 to 15 Majors of work in the department are able to fill satisfactorily positions as assistants in technical and analytical laboratories, and after some practical experience to advance to positions of independent responsibility. Students should take at least Courses 1 to 10 inclusive, and one or two Majors in Courses 13A–13G. If possible, Courses 28A and 28B and, according to the choice of work in Organic or Inorganic Chemistry, two or three courses selected from Nos. 12, 14–16, 20–22, 25–27 should be taken in the interest of a broader and more thorough preparation.

3. The Department gives, with other departments (notably Physics and Mathematics) of the University and the Department of Manual Training of the University High School, the equivalent of three years of a four years' course in Chemical Engineering.

University Fellowships yielding an income of $320 or $520 annually are open to graduate students in chemistry. A Fellowship in Chemistry has been endowed since 1901 by Mr. Berthold Lowenthal, of Chicago, as a memorial of his son Joseph B. Loewenthal; it yields an annual income of $420. The appointments to these Fellowships will be based exclusively on merit. A Fellow will be expected to render assistance to the department by serving as an assistant at lectures or in the laboratory. In no case, however, will he be required, or allowed, to devote more than one-sixth of his time to such service.

The Departmental Library is equipped with an almost complete list of periodicals, past and current, necessary for prosecuting research; it also possesses a large number of reference and handbooks.

A number of general scientific journals and many of the proceedings of learned societies are received in the General Library.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=double course for twelve weeks. Two hours of laboratory work are reckoned as equal to one hour of class-room work.

PRIMARILY FOR THE SENIOR COLLEGES.

NOTE.—Courses 6, 7, 8, 9, 10, 11, and 13 are given in the analytical laboratories. The laboratories are open from 8:00 A.M to 6:00 P.M. (Saturdays only to 1:00 P.M.) The hours of instruction provide for morning and afternoon sections and will be posted in the laboratory.

Courses 8 and 9 will count toward a Master's or the Doctor's degree when Chemistry is the *secondary* subject.

6. **Qualitative Analysis.**—*Introductory Course.*
Mj. or DM. 8 or 16 hrs. a week laboratory.
2 hrs. a week class-room. Lectures, 2:00.
Summer and Autumn Quarters.
Associate Professor Stieglitz
and Dr. Holmes.
Winter Quarter.
Dr. Jones.
Spring Quarter.
Dr. Holmes.

Prerequisite: *Course 3*, or *2A*, or *2B*.

The lectures deal with the chemistry of the analytical reactions, and special attention is given to the development and application of the laws of equilibrium and solutions. This course is, in an important sense, one in advanced general chemistry.

7. **Qualitative Analysis.**—Continuation of Course 6. Hours as in 6.
Mj. or DM. Summer, Autumn, and Spring Quarters. Dr. Holmes.
Winter Quarter.
Dr. Jones.

Courses 6, 7, 10 form a continuous course, which may be begun in any Quarter.

The aim of Courses 6, 7, 10 will be to train the student to do intelligent analytical work based on a knowledge of the scientific principles of the subject and to apply and amplify his knowledge of general and physical chemistry.

8. **Quantitative Analysis.**—*Introductory Course.*—Chiefly laboratory work in gravimetric and volumetric analysis.
Mj. or DM. 8 or 16 hrs. a week, laboratory. Lecture, 1 hour. Summer Quarter.
Associate Professor Stieglitz
and Dr. Eckstein.
Autumn, Winter, and Spring Quarters.
Associate Professor Stieglitz
and Miss Barnard.

Prerequisite: *Qualitative Analysis* (Courses 6 and 7).

9. **Quantitative Analysis.**—Continuation of Course 8, Mj. or DM. 10 or 20 hrs. a week, laboratory.
Summer Quarter.
Associate Professor Stieglitz
and Dr. Eckstein.
Autumn, Winter, and Spring Quarters.
Associate Professor Stieglitz
and Miss Barnard.

Courses 8, 9, 11 form a continuous course, which may be begun in any Quarter.

Primarily for the Graduate School.

10. **Advanced Qualitative Analysis.**—Mj. or DM. 10 or 20 hrs. a week, laboratory.
Summer, Autumn, and Spring Quarters.
Dr. Holmes.
Winter Quarter.
Dr. Jones.

Open to College students. Continuation of Courses 6 and 7.

11. **Advanced Quantitative Analysis.**—Mj. or DM. 10 or 20 hrs. a week.
Summer and Winter Quarters.
Associate Professor Stieglitz.

Continuation of Courses 8 and 9. Open to students in the Senior Colleges.

12. **Elementary Spectrum Analysis (Qualitative).**—Emission (flame and electric spark) and absorption spectra of inorganic substances. Chiefly laboratory work. ½Mj. Winter Quarter.
Dr. Jones.

13. **Special Methods in Quantitative Analysis.**—Chiefly laboratory work.
13A. Electrolytic Methods. ½Mj or Mj.
13B. Special Mineral Analysis. Mj.
13C. Water Analysis. ½Mj.
13D. Gas Analysis. ½Mj.
13E. Organic Elementary Analysis. ½Mj.
13G. Iron and Steel Analysis. ½Mj or Mj.
Autumn, Winter, and Spring Quarters.
Associate Professor Stieglitz.

Prerequisite: *Quantitative Analysis, 8 and 9.*

13F. **Assaying.**—Fire-assay of gold, silver, and lead ores. Mj. Spring Quarter.
Mr. ———.

Prerequisite: *General Chemistry, Qualitative and Quantitative Analysis* (Courses 8 and 9).

14. **Organic Chemistry.**—Lectures 3 hrs. a week.
Mj. Autumn Quarter; 12:00.
Professor Nef.

Prerequisite: *General Chemistry and Qualitative Analysis.*

15. **Organic Chemistry.**—Continuation of Course 14.
Mj. Winter Quarter; 12:00.
Professor Nef.

16. **Organic Chemistry.**—Continuation of Course 15.
M. First Term, Spring Quarter; 12:00.
Professor Nef.

Courses 14, 15, 16 form a continuous course, covering the compounds of carbon, including the fatty and the aromatic series. The aim of the course will be to take up very thoroughly the simpler compounds, going with great detail into the chemical behavior, the characteristic reactions and relationships of the different classes of organic compounds, and considering with great care the synthetic methods by which they can be obtained. Richter's or Bernthsen's *Organic Chemistry* is used as a reference book, but recent literature will, in special cases, be considered in detail.

17. **General Organic Chemistry.**—Fatty and aromatic series.
Lectures, 5 hrs. a week.
Mj. (or M. First Term). Summer Quarter; 8:30. DR. HESSLER.
Prerequisite: *General Chemistry and Qualitative Analysis.*

18. **Elementary Organic Preparations.**—Laboratory work; 10 hrs. a week. This course is arranged to accompany the lectures of Course 17. It may be taken without the lectures by students who have had organic chemistry.
½Mj. or Mj. Summer Quarter.
DR. HESSLER.
Prerequisite: *As in Course 17.*

19. **Toxicology.** ½Mj. Autumn Quarter
PROFESSOR HAINES AND ASSISTANT.

19B. **Poisons and Their Detection.**—A conference and laboratory course.
M. Second Term, Spring Quarter.
PROFESSOR HAINES.

20. **Organic Preparations.**—Laboratory work, 10 or 20 hrs. a week.
Mj. or DM. Autumn, Winter, and Spring Quarters. PROFESSOR NEF.
Summer Quarter.
DR. HESSLER.
Prerequisite: *Qualitative and Quantitative Analysis,* and *Organic Chemistry* (it may be taken simultaneously in connection with lectures on Organic Chemistry). A reading knowledge of German is essential.

21. **Organic Preparations.**—Continuation of Course 20.
Mj. or DM. Autumn, Winter, and Spring Quarters. PROFESSOR NEF.
Summer Quarter.
DR. HESSLER.

22. **Organic Preparations.**—Continuation of Course 21.
Mj. or DM. Autumn, Winter, and Spring Quarters. PROFESSOR NEF.
Summer Quarter.
DR. HESSLER.

23. **Physical Chemistry Applied to Problems in General Chemistry.** 2 hrs. a week. ½Mj.
PROFESSOR SMITH.
Prerequisite: *College Physics, General Chemistry, and Qualitative Analysis.*
[Not to be given in 1904–5.]

24. **Advanced Inorganic Chemistry.**—Two lectures a week on selected topics.
½Mj. Winter Quarter.
DR. JONES.
Prerequisite: *General Chemistry and Qualitative Analysis.*

25. **Inorganic Preparations.**—Laboratory work.
Mj. or DM. 10 or 20 hours a week.
Autumn and Winter Quarters.
DR. JONES.
Prerequisite: *Qualitative and Quantitative Analysis, and a reading knowledge of German.*

26. **Inorganic Preparations.**—Continuation of Course 25. Mj. or DM.
Autumn and Winter Quarters.
DR. JONES.

27. **Inorganic Preparations.**—Continuation of Course 26. Mj. or DM.
Autumn and Winter Quarters.
DR. JONES.

28A. **Elementary Physical Chemistry.**—With special reference to Physico-Chemical measurements.
½Mj. Summer Quarter.
ASSOCIATE PROFESSOR STIEGLITZ.
½Mj. 2 hrs. a week. Spring Quarter.
ASSISTANT PROFESSOR MCCOY.
Prerequisite: *College Physics* (Course 1) *and Qualitative Analysis* (Course 6).

28B. **Practical Physical Chemistry.**
½Mj. Summer Quarter.
ASSOCIATE PROFESSOR STIEGLITZ.
½Mj. 5 hrs. a week. Spring Quarter
ASSISTANT PROFESSOR MCCOY.
Prerequisite: *College Physics* (Course 1), *Quantitative Analysis* (Course 8); Course 28A should accompany or precede this course.

29. **Chemical Dynamics.** ½Mj. 2 hrs. a week. Autumn Quarter; 12:00.
ASSISTANT PROFESSOR MCCOY.

Prerequisite: *Elementary Physical and Organic Chemistry, including laboratory work; the elements of calculus.*

30. **Electro-Chemistry.**
½Mj. 2 hrs. a week. Winter Quarter.
ASSISTANT PROFESSOR MCCOY.

Prerequisite: *Elementary Physical Chemistry, including laboratory work; the elements of calculus.*

31. **Advanced Physical Chemistry.** — Laboratory course.
Mj. or DM. Autumn, Winter, and Spring Quarters. ASSISTANT PROFESSOR MCCOY.

Prerequisite: *College Physics, 1 year.* Course 29 should accompany or precede this course.

32. **Advanced Physical Chemistry.** — Laboratory course. Continuation of Course 31.
Mj. or DM. Autumn, Winter, and Spring Quarters. ASSISTANT PROFESSOR MCCOY.

33. **Research Work.**—This course will include from 30 to 40 hrs. a week of laboratory work, under the special direction of some one of the instructors in the department. It is expected that research work for a Ph.D. thesis will require 4–6 Quarters, 4–6 DMj.

33*a*. RESEARCH IN ORGANIC CHEMISTRY. — Autumn, Winter, and Spring Quarters.
PROFESSOR NEF.

33*b*. RESEARCH IN GENERAL CHEMISTRY. — Autumn, Winter, and Spring Quarters.
PROFESSOR SMITH.

33*c*. RESEARCH IN ORGANIC AND PHYSICO-ORGANIC CHEMISTRY.—Summer, Autumn, Winter, and Spring Quarters.
ASSOCIATE PROFESSOR STIEGLITZ.

33*d*. RESEARCH IN PHYSICAL CHEMISTRY.—Autumn, Winter and Spring Quarters.
ASSISTANT PROFESSOR MCCOY.

Before being admitted to Research, a candidate must satisfy the instructors of the department, by an oral test, or otherwise, that his previous training has been sufficient.

34. **Physical Chemistry Applied to Organic Problems.** Lectures 2 hrs. a week.
½Mj. Spring Quarter.
ASSOCIATE PROFESSOR STIEGLITZ.

Prerequisite: *Organic Chemistry and Elementary Physical Chemistry.*

35. **The Carbohydrates and the Terpenes** (and their derivatives).
Lectures: 2 hrs. a week.
½Mj. Autumn Quarter; 8:30.
ASSOCIATE PROFESSOR STIEGLITZ.
Prerequisite: *Organic Chemistry.*

36. **Organic Nitrogen Derivatives.**—Uric acid series; pyridine, quinone-imides, and phenazine compounds; a discussion of the alkaloids, ptomaines, and organic dye-stuffs.
Lectures, 2 hrs. a week.
½Mj. Winter Quarter; 8:30.
ASSOCIATE PROFESSOR STIEGLITZ.
Prerequisite: *Organic Chemistry.*

37. **Special Chapters of Organic Chemistry.**— Lectures, 4 hrs. a week.
M. Second Term, Spring Quarter; 12:00.
PROFESSOR NEF.
Prerequisite: *Organic Chemistry.*

38. **The Aromatic Series.**—Lectures, 2 hrs. a week.
½Mj. Spring Quarter.
DR. HESSLER.

Prerequisite: *Organic Chemistry.*

40. **The Teaching of Chemistry.**—A series of conferences and lectures on the didactic of chemistry.
½Mj. Spring Quarter.
PROFESSOR SMITH.

42. **History of Chemistry.** — 2 hrs. a week. Winter and Spring Quarters. Two ½Mj.
[Not to be given in 1904–5.]

43. **Club Meetings.**
Summer, Autumn, Winter, and Spring Quarters.
VARIOUS MEMBERS OF THE STAFF.

Meetings will be held twice a month. They may be attended by anyone interested, whether connected with the University or not; the subjects for the meetings will be announced at least one week beforehand.

XXI. THE DEPARTMENT OF GEOLOGY.

OFFICERS OF INSTRUCTION.

THOMAS CHROWDER CHAMBERLIN, Ph.D., LL.D., *Professor and Head of the Department of Geology.*
ROLLIN D. SALISBURY, A.M., *Professor of Geographic Geology.*
JOSEPH PAXSON IDDINGS, Ph.B., *Professor of Petrology.*
RICHARD ALEXANDER FULLERTON PENROSE, Jr., Ph.D., *Professor of Economic Geology.**
STUART WELLER, Ph.D., *Assistant Professor of Palæontologic Geology.*
WALLACE WALTER ATWOOD, Ph.D., *Instructor in Physiography and General Geology.*

HARRY FOSTER BAIN, Ph.D., *Lecturer on Ore Deposits* (Winter Quarter, 1904).
ERNEST ROBERTSON BUCKLEY, Ph.D., *Lecturer on Non-Metallic Mineral Resources* (Winter Quarter, 1904).

WILLIAM HARVEY EMMONS, A.B., *Research Assistant* (1903–4).
EDSON SUNDERLAND BASTIN, A.B., *Research Assistant* (1903–4).
HARLAN HARLAND BARROWS, *Laboratory Assistant.*
LESLIE HENRY WOOD, A.M., *Assistant* (Summer Quarter, 1904).
ROLLIN THOMAS CHAMBERLIN, S.B., *Assistant* (Summer Quarter, 1904).

FELLOWS.

1904–1905.

ROLLIN THOMAS CHAMBERLIN, S.B.
GEORGE FREDERICK KAY, A.B.
GEORGE CHARLTON MATSON, S.B., A.M.
WARREN DUPRÉ SMITH, S.B.

INTRODUCTORY.

REQUIREMENTS FOR DEGREES.

I. *The Doctor's Degree.* — The courses expected of candidates for a Ph.D. degree are as follows (some undergraduate courses being included) :

A. Geology the Major Subject.

1) Where General Geology is the major subject, 7, 8, 9, 11, 12, 13, 15, 16, 18, 20, 21, 22, 30, 31, 32, 36, 39, 40, 41, 43, 44, 45, and 46, or their equivalents, together with special work in the line of the thesis.

2) Where Geography or Geographic Geology is the major subject, 7, 8, 9, 13, 15, 16, 18, 20, 36, 38, 40, 41, 43, 44, 45, and 46, or their equivalents, together with special work in the line of the thesis; and in addition a general knowledge of Zoögeography and Geographic Botany.

3) Where Petrology is the major subject, 7, 8, 9, 11, 12, 13, 15, 16, 18, 20, 30, 31, 32, 33, 34, 35 (Courses 30–35, being taken as Double Majors), 36, 37, 38, 39, 40, 41, 42, 44, 45, and 46, or their equivalents, together with special work in the line of the thesis; and in addition Mechanical Drawing, General and Molecular Physics, General Inorganic Chemistry, Qualitative and Quantitative Analysis including rock analysis.

4) Where Palæontologic Geology is the major subject, 7, 8, 9, 10, 13, 15, 16, 18, 20, 21, 22, 24, 25, 26 (the last three as Double Majors), 38, 40, 41, 43, 44, 45, 46, or their equivalents, together with special work in the line of the thesis; and in addition Vertebrate Palæontology, General Biology, Field Zoölogy, General, Field, and Geographic Botany, and Ecology.

In all cases a thorough knowledge of the principles of Physics and Chemistry is presupposed.

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*On leave of absence.

B. Geology the Minor Subject.

5) Where Geology is the minor subject, nine Majors of work are to be selected from the courses numbered 7 and upwards, but these must include Courses 8, 15, 16, and 18.

6) In case Geology is taken as one of two Minors, the candidate is to select from four to six Majors of work from the above courses numbered 7 and upwards, including Courses 15, 16, and 18.

II. *The Master's Degree.* — The courses expected of a candidate for a Master's degree, if all his work is taken in the Department, include seven Majors together with a dissertation, the courses to be selected from those numbered 7 and upwards. They must include Courses 8, 15, 16, and 18.

When students come to the University with advanced graduate credits, the Department may recommend that certain courses be taken as review studies. In the case of students who have already done a large part of the required graduate work before coming to this University, and who have had much experience in field or laboratory research, the Department endeavors to make a just and reasonable estimate of equivalents, and does not rigidly insist upon the special apportionments of work above indicated.

A special geological library is maintained for the use of members of the Department. It is open throughout the entire day, and constitutes a study room for students, to whom the library becomes a literary laboratory.

The Geological Club holds weekly meetings which are occupied with reports of field work, reviews of current literature, colloquies on themes of special interest, addresses by local and visiting geologists, and miscellaneous matters of geological interest.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

PRIMARILY FOR SENIOR COLLEGE STUDENTS.

7. **Field and Laboratory Course.**—Study of the geography and geology of Chicago and vicinity, and of relief, topographic, and geologic maps. The course will include two field trips (one on Saturday) and three laboratory exercises (or lectures) weekly. For teachers, and for those who wish to learn methods of field work.

M. Second Term, Spring Quarter; 2:00.
DR. ATWOOD.

M. First Term, Summer Quarter; 1:30.
MR. WOOD.

Open to students who have a knowledge of Physiography and elementary Geology. Class limited to 16.

NOTE.—Students taking this course should take no other course in the afternoon.

8. **Field Geology.**—First Course (outside of Chicago).—This course is intended to form an introduction to the more specialized professional courses that follow, and to furnish a basis for the teaching of Geography, Physiography, and elementary Geology. It involves training in stratigraphic, surficial, and other field determinations, together with mapping, sketching, and technical description. The field for the first term of 1904 is the vicinity of St. Croix Falls, Wisconsin–Minnesota; that for the second term will be the same, or the valley of the Mississippi between Prairie du Chien and Davenport.

3M. First Term, Summer Quarter.
DR. ATWOOD.

Repeated. Second Term, Summer Quarter.
MR. CHAMBERLIN.

Prerequisites: *Physiography and General Geology.*

NOTE.—The class of the First Term will start June 20; that of the Second Term, July 29. In both cases, students should be at the University at least one day in advance. Applications for admission to either course should be made early. The classes will be limited to twelve and ten members, respectively.

9. **Map Study.**—An advanced course in the interpretation of topographic and geologic maps.

M. Second Term, Summer Quarter.
MR. BARROWS.

Prerequisites: *A knowledge of elementary Physiography and Geology.*

10. **Elementary Mineralogy and Petrology.** — This course will include the study of the common rock-making minerals, and of the common rocks.

M. First Term, Summer Quarter; 8:00.
Laboratory Work; 8:00–10:00.
MR. DEWOLF.

M. First Term, Spring Quarter; 2:00.
Laboratory Work; 2:00–4:00.
DR. ATWOOD.

NOTE.—Class limited to 16.

11. **Introduction to Mineralogy. Physical and Geometrical Crystallography.** — Physical characteristics of crystals. General principles of Crystallography. Projection and construction of figures of crystals. Groth, *Physikalische Krystallographie*, etc. Mj. Autumn Quarter; 9:30.
PROFESSOR IDDINGS.

Prerequisite: *General Physics and General Inorganic Chemistry.*

12. **Descriptive Mineralogy and Determinative Mineralogy.** — Essential characteristics of minerals. Laboratory work in testing minerals by chemical and blowpipe methods.
Mj. Winter Quarter; 9:30.
PROFESSOR IDDINGS.

Prerequisite: *Course 11.*

FOR SENIOR COLLEGE AND GRADUATE STUDENTS.

13. **Vulcanism and Metamorphism.**—Volcanoes and volcanic phenomena, with a discussion of the theories concerning them. Metamorphic processes and the resulting changes in rocks.
Mj. Spring Quarter; 9:30.
PROFESSOR IDDINGS.

Prerequisite: *Courses 12 and 16.*

15. **Geographic Geology.**—The origin, development, and destruction of geographic features. The agents and processes involved. Contemporary geographic formations. Significance of landscape contours and geographic outlines. Geophysiognomy. Mj. or DMj. Autumn Quarter; 2:00.
PROFESSOR SALISBURY,
MR. BARROWS, assisting in Laboratory.
Course 15 should be followed by Course 16.

Prerequisite: *Physiography, Elementary Geology, Chemistry, and Physics.*

NOTE.—Students intending to specialize in Geology should take this course as a DMj. Occasional field trips on Saturday, some of them taking most of the day, are required.

16. **Structural Geology and Continental Evolution.** This course is based primarily on the physical history of the North American continent.
Mj. or DMj. Winter Quarter; 2:00.
PROFESSOR SALISBURY,
MR. BARROWS assisting in Laboratory.

Prerequisites: *Courses 10 or 12, and 15.* This course should be followed by Course 18.

NOTE.—Students specializing in Geology should take this course as a DMj.

18. **Geologic Life Development.** — A study of the introduction and succession of the ancient forms of life in their geologic relationships, constituting historical Geology studied on the life side.
Lectures: Mon., Wed., Fri., 2:00.
Laboratory: Tues., Thurs., 2:00–4:00.
Mj. Spring Quarter; 2:00.
ASSISTANT PROFESSOR WELLER.

Prerequisite: *Systematic Zoölogy and Botany*, and *Courses 15 and 16.*

19. **Teachers' Course.**—A course for teachers of Physiography. The principles and the methods of Physiography in secondary schools, and the selection of material to be presented.
M. Mon.-Thurs. First Term, Spring Quarter; 4:00. PROFESSOR SALISBURY.

Prerequisite: *Courses 7 and 15.*

NOTE.—May not be given in 1905.

20. **Field Geology** (Second Course). — Advanced field work, involving the systematic investigation of a formation or an area. A formal report, as nearly as practicable in conformity with the approved methods of official geological reports, is required. The fields for 1904 will be in the West. The work may be prosecuted during the months of July, August, and September. One party, limited to 12, under the leadership of Dr. Atwood, will spend the month of September in northern Arizona, in the vicinity of the Grand Canyon of the Colorado. Other parties doing more special work will study the former glaciation in selected mountain regions, or the drift formations in selected areas in Wisconsin.
3M. Second Term, Summer Quarter.
PROFESSOR SALISBURY
AND DR. ATWOOD.

Prerequisite: *Courses 8, 10, 15, and 16,* or their equivalents.

NOTE.—The western parties will start about August 1 (one about September 1), the exact dates being fixed early in July. In all cases, arrangements must be made in advance, and students should be at the University two days in advance of the date of starting.

PRIMARILY FOR GRADUATE STUDENTS.

21. **Palæontologic Geology.** — A study of the hard parts of invertebrate animals preserved as fossils, their classification, and their geologic and geographic distribution; followed by special

class study of the life of a selected geologic period. Lectures and laboratory work.

Mj. Winter Quarter; 3:00.

Lectures: Tues., Thurs., 12:00.

Laboratory: Mon., Wed., Fri., 2 hours.

ASSISTANT PROFESSOR WELLER.

Prerequisite: *Course 2 or its equivalent.* Desirable antecedents: *Courses 15 and 16.*

22. A continuation of Course 21.

Mj. Spring Quarter.

ASSISTANT PROFESSOR WELLER.

24, 25. **Special Palæontologic Geology.** — Chiefly individual work on the life of special geological periods or formations, or on other selected themes in historical or applied Palæontology.

Mj. or DMj. Winter and Spring Quarters. Hours arranged to suit individual students.

ASSISTANT PROFESSOR WELLER.

30, 31, 32. **Petrology.** — Megascopical and microscopical characters of rocks; mineral and chemical composition; origin and classification.

Mj. or DMj.

Autumn, Winter, and Spring Quarters; 3:00.

PROFESSOR IDDINGS.

Prerequisite: *Course 12.*

These courses may be taken as Majors or Double Majors, according to the amount of laboratory work.

33, 34, 35. — **Special Petrology.** Chiefly individual work in advance of Courses 30, 31, 32.

Mj. or DMj. Autumn, Winter, and Spring Quarters. Hours arranged to suit individual students. PROFESSOR IDDINGS.

36. **Economic Geology.** — A discussion of the nature and distribution of ore deposits and of the principles of ore depositions.

M. Second Term. Winter Quarter

MR. ———.

Prerequisite: *Courses 12 and 16; Inorganic Chemistry and Physics.*

37. **Economic Geology.**—A discussion of the nature, occurrence, and uses of non-metallic mineral resources. M. First Term; Winter Quarter.

MR. ———.

Prerequisite: *Same as for Course 36.*

38. **Ore Deposits** (Advanced Course.)—A discussion of the origin of a selected class of ore deposits, and of the chemical processes involved in their formation. The class of ores selected will vary from year to year.

M. Second Term, Winter Quarter.

MR. ———.

Prerequisite: *Course 36.*

39. **Building Material.**—An advanced course on building stone, clays, cements, etc.

M. First Term, Winter Quarter.

MR. ———.

Prerequisite: *Course 37.*

NOTE.—The courses on Economic Geology, 36 to 39, will be given by specialists in these subjects. In the winter of 1904 they were given by H. Foster Bain, Ph.D., of the U. S. Geological Survey, and by Ernest R. Buckley, Ph.D., State Geologist of Missouri.

40, 41. **Principles and Theories of Geology.** — Critical discussions of principles, fundamental theories, modes of interpretation, and working hypotheses in their application to the leading questions of geological history.

2Mj. Autumn, and Spring Quarters.

PROFESSOR CHAMBERLIN.

Prerequisite: *Courses 15 and 16, or their equivalents, the elements of Mineralogy and Petrology, and their antecedents.*

43, 44, 45. **Special Geology.** — Chiefly individual work on selected themes under the personal supervision of the professors in charge.

Summer, Autumn, Winter, and Spring Quarters.

PROFESSORS CHAMBERLIN AND SALISBURY.

46. **Field Geology** (Third Course). — This contemplates thorough and systematic work in close conformity to official standards, and, as nearly as possible, individual and independent. The course may form the basis for a doctor's thesis.

Summer Quarter.

PROFESSORS CHAMBERLIN, SALISBURY, IDDINGS, AND WELLER.

XXI A. THE DEPARTMENT OF GEOGRAPHY.

OFFICERS OF INSTRUCTION.

ROLLIN D. SALISBURY, A.M., *Professor and Head of the Department of Geography.*
JOHN PAUL GOODE, Ph.D., *Assistant Professor of Geography.*

HARLAN HARLAND BARROWS, S.B., *Assistant* (Summer Quarter, 1904).
LESLIE HENRY WOOD, A.M., *Assistant* (Summer Quarter, 1904).

FELLOW.

CHESSLEY JUSTIN POSEY, S.B.

INTRODUCTORY.

The courses now arranged for in this department deal with subjects which are intermediate between Geology and Climatology on the one hand, and History, Sociology, Political Economy, and Biology on the other. It should be understood that the courses here announced do not include all of the geographic work of the University. The Geography courses which ally themselves with Geology will continue to be given under that department. The courses in Zoögeography, Geographic-Botany, and Commercial Geography remain with the Departments of Zoölogy, Botany, Political Economy, respectively.

REQUIREMENTS FOR DEGREES.

I. *The Doctor's Degree.*—The courses expected of candidates for a Ph.D. degree are as follows (some undergraduate courses being included):

A. Geography the Major Subject.

1. In the Department of Geography, Courses 3, 5, 6, 7, 10, 12, 14, 16, and at least six Majors of advanced individual work, a part of which may be in the line of the thesis.
2. In the Department of Geology, Courses 7, 8, 10, 15 (DMj.), 16, 18, 20, 36, 37.
3. In the Department of Biology, a general knowledge of Zoögeography and Geographic Botany.
4. In the Department of History, a general knowledge of Modern History, and a thorough knowledge of the history of some period and region where geographic influences were an important factor in its course.
5. In the Department of Political Economy, Commercial Geography.

A thorough college course, of not less than one year, in Physics and in Chemistry.

B. Geography the Minor Subject.

Where Geography is the minor subject, nine majors of work, which must include all those specified by number under *1* above.

II. *The Master's Degree.*—The courses expected of a candidate for a Master's degree, if all his work is taken in the Department, include seven Majors, together with a dissertation. These courses must include 3, 6, 7, 10, and 12, Course 15 in Geology, and courses in the geographic phases of Zoölogy and Botany.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course = a single course for six weeks. DM=Double Minor course = a double course (two hours daily) for six weeks. Mj=Major course = a single course for twelve weeks. DMj=Double Major course = a double course for twelve weeks.

7. Influence of Geography on American History.—A study of the geographic conditions which have influenced the course of American history. Their importance as compared with one another, and their importance as compared with non-geographic factors.

Familiarity with the leading events of American history, and with the elements of the physiography of the United States, is presupposed. Primarily for teachers of geography and history. M. Second Term, Summer Quarter. M. Winter Quarter. Mr. Barrows.

10. Economic Geography of North America.—A study of the natural resources of the continent, as factors in its economic development. The

geology, the physiography and the climate, treated as factors determining or affecting the location and utilization of mineral resources, arable and grazing lands, forests, etc. The influence of these various resources on the settlement and development of the continent.

Mj. Spring Quarter; 9:30.
ASSISTANT PROFESSOR GOODE.

11. **Economic Geography of North America.**—Briefer course. M. Second Term, Summer Quarter.
ASSISTANT PROFESSOR GOODE OR MR. WOOD.

12. **Economic Geography of Europe.**—Outline same as for Course 10, together with a study of the effects of the natural resources on the distribution and economic development of racial stocks.

Mj. Spring Quarter; 9:30.
ASSISTANT PROFESSOR GOODE.

[May not be given in 1905.]

14. **Economic Geography of Tropical Countries.**—Outline similar to that for Course 10. Especial attention will be given to South America, the West Indies and the Philippines. The course will also include a consideration of the results likely to be achieved by the introduction of scientific methods of sanitation and industry from countries in temperate latitudes.

Mj. Spring Quarter; 11:00.
ASSISTANT PROFESSOR GOODE.

[May not be given in 1905.]

16. **The Geographic Problems of the Orient.**—The significance of the location of the region with reference to the *Hinterland* and to the ocean; the physiography of the realm; the natural resources; racial characteristics; the reasons underlying western interest and aggression.

This course is developed mainly with reference to China and Japan.

Mj. Spring Quarter: 11:00.
ASSISTANT PROFESSOR GOODE.

30, 31, 22. **Research Course.**—Advanced work on selected topics will be arranged with individual students prepared to undertake semi-independent work. Mj. or DMj. Each Quarter.
PROFESSOR SALISBURY AND ASSISTANT PROFESSOR GOODE.

For courses in **Physical Geography,** see Department of Geology.
For courses in **Commercial Geography,** see Department of Political Economy.
For courses in **Zoögeography,** see Department of Zoölogy.
For courses in **Geographic Botany**, see Department of Botany.
For normal courses for Grade Teachers, see College of Education.

XXII. THE DEPARTMENT OF ZOÖLOGY.

OFFICERS OF INSTRUCTION.

CHARLES OTIS WHITMAN, PH.D., LL.D., *Professor and Head of the Department of Zoölogy; Curator of the Zoölogical Museum.*
FRANK RATTRAY LILLIE, PH.D., *Associate Professor of Embryology; Assistant Curator of the Zoölogical Museum.*
CHARLES MANNING CHILD, PH.D., *Instructor in Zoölogy.*
WILLIAM LAWRENCE TOWER, S.B., *Instructor in Embryology.*

HENRY HIGGINS LANE, S.B., *Laboratory Assistant in Zoölogy.*
VICTOR ERNEST SHELFORD, B.S., *Laboratory Assistant in Zoölogy.*
OSCAR RIDDLE, B.S., *Laboratory Assistant in Zoölogy.*

REUBEN MYRON STRONG, *Assistant in Zoölogy* (Summer Quarter, 1904).
JOHN WILLIAM SCOTT, A.M., *Laboratory Assistant in Zoölogy* (Summer Quarter, 1904).
WILLIAM JACOB BAUMGARTNER, A.M., *Laboratory Assistant in Zoölogy* (Summer Quarter, 1904).
JAMES FRANCIS ABBOTT, A.B., *Laboratory Assistant in Zoölogy* (Summer Quarter, 1904).

FELLOW.
1904-1905.

WILLIAM JACOB BAUMGARTNER, A.B.
LYNDS JONES, A.B., S.M.
HORATIO HACKETT NEWMAN, A.B.
THOMAS CALDERWOOD STEPHENS, A.B.

INTRODUCTORY.

In the department of Zoölogy Professor Whitman, Associate Professors Davenport and Lillie, and Dr. Child direct investigations in Comparative Anatomy, Embryology. Cytology, Variation, Heredity, Geographic Distribution of Animals and allied subjects. In addition courses of lectures are given and conferences and a seminar are held. A Zoölogical Club meets weekly alternately for the presentation by graduate students and instructors of the results of their investigations and for the presentation of reviews of current zoölogical literature.

Special facilities for investigation are offered in the Hull Zoölogical Laboratory by the numerous private workrooms for graduate students, by an extensive equipment of the best optical and other apparatus, a museum, extensive aquaria, and a biological library of about 10,000 volumes. Many of the more important zoölogical serials are received currently at the Biological Library. The more important proceedings of learned societies are received at the University. The University Library is admirably supplemented by the John Crerar Library, and those of the Chicago Academy of Sciences and the Field Columbian Museum. Altogether the library facilities in Chicago for students of zoölogy are rapidly approaching those afforded by the largest eastern cities.

During the summer advanced work is given both at the University and at the Marine Biological Laboratory, Wood's Hole, Mass., and at the Biological Laboratory, Cold Spring Harbor, Long Island.

For each Major or Double Major course requiring laboratory work the laboratory fee is $2.50.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

SENIOR COLLEGE COURSES.

10. **Vertebrate Anatomy.**—Lectures, laboratory work and demonstrations upon the comparative anatomy of Vertebrates both living and fossil. The evolution of the Vertebrates is traced in detail. In the laboratory the following types of Vertebrates will be studied, Amphioxus, Pisces, Amphibia, Reptilia.

Mj. or DMj. Autumn Quarter.
Lectures: Mon., Wed., Fri., 9:30.
Laboratory: Mon., Wed., Fri., 2:00-5:00.
16 hrs. in Laboratory for DMj.
MR. TOWER.

Prerequisite: *Courses 2, 5, 6, and 9, or their equivalents.*

11. **Vertebrate Anatomy.**—Course 10, continued. Reptilia, Aves, Mammalia.

Mj. or DMj. Winter Quarter.
Lectures: Mon., Wed., Fri., 9:30.
Laboratory: Mon., Wed., Fri., 2:00-5:00.
MR. TOWER.

Prerequisite: *Same as in Course 10.*

NOTE.—In Courses 10 and 11 special arrangements will be made for DMj. students.

12. **Comparative Osteology.**
See Department of Palæntology, Course 3.

13. **Field Zoölogy.** (Advanced Course)—Study of the fauna of the region about Chicago, with special reference to the relations between animals and their environment. Each student is expected to devote a considerable portion of his time to the study of some special problem connected with the work of the course, and to present the results of his work in the form of a thesis at the end of the course.

Mj. or DMj. Autumn Quarter.
Lecture: Fri., 2:00.
DM. Second Term; Summer Quarter.
Lectures: Mon., Fri., 1:30.
Laboratory or field work: Afternoons and Saturday morning. DR. CHILD.

16. **Cytology.**—Morphology and physiology of the cell; cell-division; cytological theories; the cell and the organism; theory and practice of fixation and staining. The lectures will be supplemented by collateral reading and discussions.

Mj. or DMj. Spring Quarter.

Lectures: Three times a week; hours to be arranged with class.

Laboratory: Afternoons; 8 hrs. a week.

DR. CHILD.

[To be given in 1905.]

17. **Regeneration.**—The lectures will deal with the principal facts and problems of regeneration and of form-regulation in general, and will be supplemented by collateral reading and discussions. In the laboratory typical cases of regeneration will be studied.

Mj. or DMj. Spring Quarter.

Lectures: Three times a week; hours to be arranged with class.

Laboratory: Afternoons; 8 hrs. a week.

DR. CHILD.

NOTE.—Courses 16 and 17 will be given in alternate years.

18. **Physiology of Development.**—The lectures will deal with general and experimental embryology, and with the mechanics of embryonic development, including: the history of the germ-cells; fertilization; the rôle of cell-division in development; intra-cellular differentiation; correlative differentiation of organs. The laboratory work will be on the early development of selected types of Vertebrates and Invertebrates.

Mj. or DMj. Winter Quarter.

Lectures: Mon., Wed., Fri., 8:30.

Laboratory: 6 or 16 hours a week.

By special permission the lectures alone may be taken as ½Mj.

ASSOCIATE PROFESSOR LILLIE.

Prerequisite: *Courses 2 and 20; Course 16 is desirable.*

19. **Vertebrate Embryology.**—Fishes and amphibia. Lectures, demonstrations, and laboratory work.

Mj. or DMj. Winter Quarter.

ASSOCIATE PROFESSOR LILLIE.

[Not to be given in 1905.]

20. **Vertebrate Embryology.**—Birds and mammals. Lectures, demonstrations, and laboratory work.

Mj. or DMj. Spring Quarter.

Lecture: Fri., 8:30.

Laboratory:

Sec. *a:* Mon. and Tues., 2:00–5:00, and Wed. 11:00–1:00.

Sec. *b:* Wed. 11:00–1:00, and Thurs. and Fri., 2:00–5:00.

ASSOCIATE PROFESSOR LILLIE AND MR. TOWER.

Prerequisite: *Course 2, and Anatomy 10, 11, and 12, or their equivalents.*

NOTE.—Course 20 and the two courses in Vertebrate Anatomy constitute a course in Vertebrate Morphology running through the year, and may well be taken together.

21. **Embryology.**—Lectures, demonstrations and laboratory work.

DM. First Term, Summer Quarter.

Lectures: Mon.–Fri., 8:00.

Laboratory: Twelve hours; mornings.

MR. TOWER.

25. **Invertebrate Embryology.**—Tracheata. Lectures, demonstrations and laboratory work on the embryonic and post-embryonic development of insects. Mj. or DMj. Winter Quarter.

MR. TOWER.

[Not to be given in 1905.]

29. **Marine Biology** at the Marine Biological Laboratory at Woods Hole, Mass. Credit is given at the University of Chicago for courses taken at this laboratory. DMj. Summer Quarter.

PROFESSOR WHITMAN AND ASSOCIATE PROFESSOR LILLIE.

GRADUATE COURSES.

40. **Zoölogical Problems.**—Research at the Marine Biological Laboratory, Wood's Hole, Mass.

2 or 3Mj. Summer Quarter.

PROFESSOR WHITMAN AND ASSOCIATE PROFESSOR LILLIE.

41. **Zoölogical Problems.**—Research.

DMj. Autumn Quarter.

Lectures: 1 hour a week.

Laboratory: 3 hours daily.

PROFESSOR WHITMAN, ASSOCIATE PROFESSOR LILLIE, DR. CHILD, AND MR. TOWER.

Prerequisites: Such of the elementary courses as are essential to the special topic undertaken.

(Laboratory fee, $2.50.)

42. **Zoölogical Problems.**—Research (continued).

DMj. Winter Quarter.

Lectures: 1 hour a week.

Laboratory: 3 hours daily.

PROFESSOR WHITMAN, ASSOCIATE PROFESSOR LILLIE, DR. CHILD, AND MR. TOWER.

(Laboratory fee, $2.50.)

43. **Zoölogical Problems.**—Research (continued).
DMj. Spring Quarter.
PROFESSOR WHITMAN,
ASSOCIATE PROFESSOR LILLIE,
DR. CHILD, AND MR. TOWER.
(Laboratory fee, $2.50.)

45. **Research in Zoölogy.**—Daily.
DMj. Summer Quarter.
DR. CHILD, AND MR. TOWER.

49, 50. **Seminar:** *General Biological Topics.*—Two hours weekly.
2Mj. Autumn and Winter Quarters.
PROFESSOR WHITMAN,
ASSOCIATE PROFESSOR LILLIE,
DR. CHILD, AND MR. TOWER.

XXIII. THE DEPARTMENT OF ANATOMY.

OFFICERS OF INSTRUCTION.

LEWELLYS FRANKLIN BARKER, M.B., *Professor of Anatomy and Head of the Department of Anatomy.*
ROBERT RUSSELL BENSLEY, A.B., M.B., *Assistant Professor of Anatomy.*
JOHN GORDON WILSON, A.M., M.B., *Instructor in Anatomy.*
GEORGE ELMER SHAMBAUGH, M.D., *Instructor in Anatomy of the Ear, Nose, and Throat.*
BASIL COLEMAN HYATT HARVEY, A.B., M.B., *Instructor in Anatomy.*
DANIEL GRAISBERRY REVELL, A.B., M.B., *Instructor in Anatomy.*
DEAN DEWITT LEWIS, A.B., M.D., *Instructor in Anatomy.*
PRESTON KYES, A.M., M.D., *Instructor in Anatomy.*
BURTON JESSE SIMPSON, S.B., M.D., *Associate in Anatomy.*
BENSON AMBROSE COHOE, A.B., M.B., *Associate in Anatomy.*

FELLOWS.

1904-1905

EMIL GOETTSCH, S.B.

EDWIN GARVEY KIRK, S.B.

INTRODUCTORY.

The Hull Laboratory of Anatomy of the University of Chicago has been especially fitted out for graduate work, including advanced courses in Human Anatomy and Embryology, as well as original research in these subjects. Opportunities are afforded for graduate students who wish to pass on to the higher degrees of A.M., S.M., or Ph.D. A certain number of physicians who wish to study in particular anatomical fields, preparatory to clinical specialization, can be accommodated.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=(two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

PRIMARILY FOR THE SENIOR COLLEGES.

1. **Dissection of Arm (Human).**—The student makes a complete dissection of all structures, using atlases and text-books as guides. The work is largely independent. The laboratories for dissecting are open every day from 8:30 A.M. to 5:00 P.M. (Saturdays until 1:00 P.M), during the Autumn, Winter, and Spring Quarters. A dissection must be completed in the Quarter in which it is undertaken.
Mj. Autumn Quarter.
Repeated in Winter and Spring Quarters.
PROFESSOR BARKER, DRS. LEWIS, WILSON, HARVEY, SIMPSON, AND OTHERS.
(Laboratory fee, $5.00.)

2. **Dissection of Leg (Human).**—The arrangements for this course are similar to those for Course 1.
Mj. Autumn Quarter.
Repeated in Winter and Spring Quarters.
PROFESSOR BARKER, DRS. LEWIS, WILSON, HARVEY, SIMPSON, AND OTHERS.
(Laboratory fee, $5.00.)

3. **Dissection of Head, Neck, and Spinal Column (Human).**— The arrangements for this course are similar to those for Course 1.
Mj. Autumn Quarter.
Repeated in Winter and Spring Quarters.
PROFESSOR BARKER, DRS. LEWIS, WILSON, HARVEY, SIMPSON, AND OTHERS.
(Laboratory fee, $5.00.)

4. **Dissection of Wall of Thorax and Thoracic Viscera (Human).**—The arrangements for this course are similar to those for Course 1.
½Mj. Autumn Quarter.
Repeated in Winter and Spring Quarters.
PROFESSOR BARKER, DRS. LEWIS, WILSON, HARVEY, SIMPSON, AND OTHERS.
Prerequisite: *Course 1.*
(Laboratory fee, $2.50.)

5. **Dissection of Wall of Abdomen and Pelvis, and of Abdominal and Pelvic Viscera (Human).**—The arrangements for this course are similar to those for Course 1. ½Mj. Autumn Quarter.
Repeated in Winter and Spring Quarters.
PROFESSOR BARKER, DRS. LEWIS, WILSON, HARVEY, SIMPSON, AND OTHERS.
Prerequisite: *Course 1.*
(Laboratory fee, $2.50.)

6. **Human Osteology.**—A systematic study of the human skeleton will be undertaken. The bones of the human body will be drawn, or modelled in clay, in the laboratory. The structure of the composite bones will be considered from the comparative and embryological standpoints.
½Mj. Autumn Quarter.
Lecture: Tues., 8:30.
Laboratory: Tues., 9:30–1:00.
DR. HARVEY.
(Laboratory fee, $1.25.)

6A. **Human Osteology.**—Equivalent to Course 6.
M. First Term, Summer Quarter.
Lectures: Tues. and Thurs., 8:00.
Laboratory: Tues. and Thurs., 9:00–12:30.
DR. REVELL.
(Laboratory fee, $1.25.)

10. **Splanchnology, Histology, and Cytology.**—A brief course on the structure of the cell and elementary tissues will be followed by a study of the structure of the various viscera.
M. First Term, Autumn Quarter.
Lectures: Mon., Fri., 9:30.
Laboratory: Mon., Fri., 10:30–1:00; Thurs., 11:00–1:00. ASSISTANT PROFESSOR BENSLEY, DRS. KYES, REVELL, COHOE, AND OTHERS.
(Laboratory fee, $1.25.)

10A. **Equivalent to Course 10.**
M. First Term, Summer Quarter.
Lectures: Mon., Fri., 8:00.
Laboratory: Mon. Wed., Fri., 9:00–12:30.
DR. HARVEY AND ASSISTANT.
(Laboratory fee, $1.25.)

11. **Course 10** (continued).
M. Second Term, Autumn Quarter.
Lectures: Mon. and Tues., 9:30.
Laboratory: Mon. and Fri., 10:30–1:00; Tues., 11:00–1:00.
ASSISTANT PROFESSOR BENSLEY, DRS. KYES, REVELL, COHOE, AND OTHERS.
Prerequisite: *Course 10 or its equivalent.*
(Laboratory fee, $1.25.)

11A. **Course 10A** (continued).
DM. Second Term, Summer Quarter.
Lectures: Mon., Tues., Wed., Thurs., 8:00.
Laboratory: Mon., Tues., Wed., Thurs., 9:00–12:30. DR. HARVEY AND ASSISTANT.
(Laboratory fee, $2.50.)

12. **Course 11** (continued).
M. First Term, Winter Quarter.
Lectures: Wed., Fri., 9:30.
Laboratory: Wed., Fri., 10:30–1:00; Thurs., 11:00–1:00.
ASSISTANT PROFESSOR BENSLEY, DRS. KYES, REVELL, COHOE, AND OTHERS.
(Laboratory fee, $1.25.)

13. **Splanchnology, Histology, and Cytology.**—(Advanced.)—In this course the student will undertake a thorough study of the structure of the important organs. A knowledge of the normal appearance and texture of the organs will be gained by the dissection of fresh specimens, the dissecting microscope being used to supplement the information gained by ordinary methods of dissection. Finally the compound microscope

will be employed in the study of prepared sections. 1Mj. Winter Quarter.

Lectures: Wed. and Fri., 9:30.

Laboratory: Wed. and Fri., 10:30–1:00.
Thurs., 9:30–12:00.

ASSISTANT PROFESSOR BENSLEY,
DRS. KYES, REVELL, AND OTHERS.

(Laboratory fee, $2.50.)

15. **Splanchnology.**—The topographical relations of the thoracic and abdominal viscera will be studied in transverse sections of the human subject. The knowledge thus gained will be supplemented by a study of the entire organs preserved in their natural shapes by formalin injections. The vessels, ducts and natural cavities of organs will be studied by the various methods of injection, maceration and corrosion: Finally the development of the form and relations of the organs will be studied by dissection of the fœtus. ½Mj. Autumn Quarter.

DR. COHOE.

(Laboratory fee, $1.25.)

16. **Splanchnology.**—(Course 15 continued).
½Mj. Winter Quarter.

DR. COHOE.

(Laboratory fee, $1.25.)

17. **Neurology.**—Elementary histology and microscopic anatomy of the nervous system and sense organs. See Department XXV, Courses 33A, etc.

18. **Vertebrate Embryology.**—Lectures, demonstrations and laboratory work. See Department XXII, Course 20 and 21.

PRIMARILY FOR THE GRADUATE SCHOOL.

20. **Anatomy of the Ear, Nose, and Throat.**—Special anatomy for practicing physicians and advanced students. This course will consist of laboratory work, lectures, and demonstrations of anatomical preparations.

DM. First Term, Summer Quarter.

Lectures and Laboratory: Mon.-Thurs., 2:00–5:00. DR. SHAMBAUGH.

(Laboratory fee, $2.50.)

21. **Anatomy of the Eye.**—Special anatomy for practicing physicians and advanced students.

DM. First Term, Summer Quarter.

Mon.-Thurs., 8:30–12:00. DR. LEWIS.

(Laboratory fee, $2.50.)

22. **Anatomy of the Abdominal and Pelvic Viscera and Pelvic Floor.**—Special anatomy for practicing physicians and advanced students. Suited to those purposing to pay especial attention to gynæcology.

DM. First Term, Summer Quarter.

DR. LEWIS.

(Laboratory fee, $5.00.)

23. **Anatomy of the Pharynx and Larynx.**—Special course for practicing physicians and advanced students, to consist of lectures and laboratory work on the development, gross and microscopic anatomy of these organs. Special attention will be given to the nervous mechanism and its influence on the function.

DM. First Term, Summer Quarter.

Lectures and Laboratory work: Mon., Tues., Wed., Thurs., 2:00–5:00.

(Laboratory fee, $2.50.)

24. **Anatomy of the Lymphatic System.**—A special study will be made by dissection, injection, etc., of the distribution of the various systems of lymphatic vessels. Mj. Spring Quarter.

DR. LEWIS.

(Laboratory fee, $2.50.)

30. **Physiological Histology.**—The Organs of Respiration, Circulation, Absorption, Secretion and Excretion will be studied from the standpoint of the relation of these structures to the functions they perform. The changes in the structure of the cells of the parenchyma of secretory and excretory organs as results of section and stimulation of their nerves of supply, of the action of drugs, and of normal physiological activity, will be studied. Especial attention will be paid to cellular microchemistry. Mj. Spring Quarter.

Lectures: Mon. and Fri., 2:00–3:00.

Laboratory: Mon. and Fri., 3:00–5:00; Wed., 2:00–5:00.

ASSISTANT PROFESSOR BENSLEY
AND DR. REVELL.

Prerequisites: *Course 12 and 13 or their equivalents and a reading knowledge of French and German.*

(Laboratory fee, $2.50.)

31. **Hæmology.**—In this course instruction will be given in the various methods of examination of the blood, including the counting of the corpuscles, the estimation of hæmoglobin, the differential counting of white cells in dried and stained preparations, and studies in hæmolysis, cytolysis and anti-bodies.

Mj. Spring Quarter.

DR. KYES.

(Laboratory fee, $2.50.)

32 **Histogenesis.**—The changes taking place in the elementary tissues will be followed from the blastogenic period to adult life. Certain tissues will be taken as types of the general problems of development and will be studied and discussed from this point of view.

Mj. or DMj. Summer Quarter.
Lectures and Laboratory. DR. REVELL.
(Laboratory fee, $2.50.)

33. **Organogenesis.**—Structural changes in certain organs will be followed in the development from the embryonic to the adult form.

M. Second Term, Summer Quarter.
Lectures and Laboratory: Mon., Wed., 8:30–12:00. DR. REVELL.

Prerequisite for Courses 32 and 33: *A knowledge of the main facts of Embryology, Splanchnology, and Histology.*

[Not to be given in 1903.]
(Laboratory fee, $1.25.)

34. **Advanced Histology and Cytology.**—The solution of various problems in connection with tissues and cells will be undertaken. Especial attention will be paid to experimental methods.

Mj. Spring Quarter.
ASSISTANT PROFESSOR BENSLEY, AND DR. COHOE.

Prerequisite: *Courses 10 and 11.*
(Laboratory fee, $2.50.)

35. **Mammalian Osteology.**—The skeletal structur of a number of representative mammals will studied. 1Mj. Spring Quart

ASSISTANT PROFESSOR BENSLEY AND DR. HARVEY.

(Laboratory fee, $2.50.)

40. **Advanced Work.**—Opportunities are offered f advanced work in all branches of anatomy.

1 to 3M

PROFESSOR BARKER, ASSISTANT PROFESSOR BENSLEY AND DR. KYES.

(Laboratory fee, $2.50 per Mj.)

41. **Research Work.**—The laboratory is equipped f the original investigation of anatomical prol lems. Suitably trained and endowed student or physicians who have the time to do suc work, will be encouraged to undertake it.

1 to 4 M

PROFESSOR BARKER, ASSISTANT PROFESSOR BENSLEY AND DR. KYES.

42 **Seminar.**—A limited number of students can, b special arrangement, be admitted to a semina in which subjects of current interest in Gro or Microscopic Anatomy will be discussed.

1–2Mj. Autumn and Winter Quarter
Fri., 4:00. PROFESSOR BARKER.

XXIV. THE DEPARTMENT OF PHYSIOLOGY.

(Including Physiological Chemistry and Pharmacology.)

OFFICERS OF INSTRUCTION.

GEORGE NEIL STEWART, D.Sc., M.D., *Professor and Head of the Department of Physiology.*
ELIAS POTTER LYON, PH.D., *Assistant Professor of Physiology.*
ALBERT PRESCOTT MATHEWS, PH.D., *Assistant Professor of Physiological Chemistry.*
DAVID JUDSON LINGLE, PH.D., *Assistant Professor in Physiology.*
CHARLES HUGH NEILSON, PH.D., *Associate in Physiology.*
————————., *Associate in Physiology.*
SAMUEL A. MATTHEWS, M.D., *Assistant in Pharmacology.*
CHARLES CLAUDE GUTHRIE, M.D., *Assistant in Physiology.*
ORVILLE HARRY BROWN, S.B., *Assistant in Physiology.*
HUGH McGUIGAN, S.B., *Assistant in Physiological Chemistry.*

FRED RIESKE, *Mechanical Assistant.*

FELLOWS.

1904-1905.

FREDERICK MADISON ALLIN, A.B.
WALTER WILE HAMBURGER, S.B.
ELIZABETH TOWLE, A.B.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks.
Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

Senior College Courses.

12. **Physiology of Blood, Circulation, and Respiration.** Mj. Spring Quarter.
Lectures: Two a week.
Professor Stewart.
Recitations: One a week.
Assistant Professor Lyon, Assistant Professor Lingle and others.
Laboratory: 6 hrs. a week.
Assistant Professors Lyon and Lingle, Dr. Guthrie and Mr. Brown.
Prerequisite: *Physiological Chemistry.*

13. **Physiology of Digestion, Metabolism, Absorption, Secretion, Muscles and Heat.** 1½Mj. Autumn Quarter.
Lectures: Three a week.
Professor Stewart.
Recitations: Two a week.
Assistant Professor Lyon, Assistant Professor Lingle, Dr. Neilson and others.
Laboratory: 7 hrs. a week.
Assistant Professors Lyon and Lingle, Dr. Neilson, and Mr. Brown.
Repeated Summer Quarter, 1904.
Professor Stewart, Drs. Neilson and Guthrie, and Mr. Brown.
Prerequisite: *Physiology 12.*

14. **Physiology of the Nervous System and the Senses.** Mj. Winter Quarter.
Lectures: Two a week.
Professor Stewart.
Recitations: One a week.
Assistant Professor Lyon, Assistant Professor Lingle, Dr. Neilson, and others.
Laboratory: 6 hrs. a week.
Assistant Professors Lyon and Lingle, Drs. Neilson and Guthrie.

15. **Special Physiology of Mammals.**—Including the repetition of experiments not given in the general courses. Saturdays, 8:00–12:30. ½Mj. Summer Quarter.
Dr. Guthrie.
Repeated Autumn Quarter.
Prerequisite: *Physiology 12 or equivalent.*

16. **General and Comparative Physiology.**—The phenomena of irritability; the effects of external conditions on protoplasm.
Mj. Spring Quarter.
Assistant Professor Lyon.
Prerequisite: *A good knowledge of Chemistry and Biology.*

20. **Physiological Chemistry.**—The chemistry of protoplasm; of the foods; of digestion, metabolism, and the excretions. 1½Mj. Winter Quarter.
Lectures: Four a week.
Assistant Professor Mathews.
Recitations: Two a week.
Laboratory: 7 hrs. a week.
Assistant Professor Mathews, Dr. S. A. Matthews, and Mr. McGuigan.
Prerequisite: *General Chemistry and Qualitative Analysis; elementary Organic Chemistry. Quantitative Analysis is strongly recommended.*

21. **Pharmacology.** 1½Mj. Spring Quarter.
Lectures: Four a week.
Assistant Professor Mathews.
Recitations: Two a week.
Laboratory: 7 hrs. a week.
Assistant Professor Mathews, Dr. S. A. Matthews, and Mr. McGuigan.
Given Summer Quarter, 1904, as 1 Mj.
Dr. S. A. Matthews.

Primarily Graduate Courses.

30. **The Cells and Liquids of the Body in Their Physico-Chemical Relations.**
Mj. Autumn Quarter.
Professor Stewart.

31. **Special Physiology of the Circulation.**
Mj. Winter Quarter.
Professor Stewart.

32. **Animal Electricity.** Mj. Spring Quarter.
Professor Stewart.

36. **The Action of Drugs on Mammals.**—An experimental course to a small number of students only. Mj. Autumn Quarter.
Dr. S. A. Matthews.

38. **The Chemistry of Protoplasm.** (Advanced Course.) The course will include the isolation of the nucleus, proteids, and other important constituents of the cell. Mj. Autumn Quarter.
ASSISTANT PROFESSOR MATHEWS.

41. **Seminar.**—At times to be announced.
PROFESSOR STEWART.

42. **Research Work in Physiological Chemistry.**
Mj. or DMj. Throughout the year.
ASSISTANT PROFESSOR MATHEWS AND DR. S. A. MATTHEWS.

43. **Research Work in Pharmacology.**
Mj. or DMj. Throughout the year.
ASSISTANT PROFESSOR MATTHEWS AND ————

44. **Research Work in Physiology.**
Mj. or DMj. Throughout the year.
PROFESSOR STEWART AND ASSISTANT PROFESSOR LYON.

51. **General and Comparative Physiology** at the Marine Laboratory, at Woods Hole, Mass.—Credit is given by the University of Chicago for courses taken at this Laboratory.
DMj. Summer Quarter.
ASSISTANT PROFESSORS MATHEWS, LYON, AND OTHERS.

FOR GENERAL PHYSIOLOGY—the physiology of plants and animals, etc.—see the Department of Botany (XXVII, 26).

XXV. THE DEPARTMENT OF NEUROLOGY.

OFFICERS OF INSTRUCTION.

HENRY HERBERT DONALDSON, PH.D., *Professor and Head of the Department of Neurology.*
SHINKISHI HATAI, PH.D., *Assistant in Neurology.*
ELIZABETH HOPKINS DUNN, M.D., *Research Assistant in Neurology.*
KATASHI TAKAHASHI, *Technical Assistant in Neurology.*

CHARLES E. INGBERT, PH.D., *Honorary Research Assistant in Neurology* (Autumn Quarter, 1903; Winter and Spring Quarters, 1904).

FELLOW.

1904-1905.

STEPHEN WALTER RANSON, S.B.

INTRODUCTORY.

The courses here offered are intended to furnish an account of the histology, microscopic anatomy, and architecture of the Nervous System such as will be required by Students of Anatomy and those preparing for Medicine or Psychology, and also to give the opportunity both for the investigation of new problems and for a critical discussion of current work in Neurology. Course 3 forms part of the required work in Histology and Microscopic Anatomy for those taking the first two years' work in Medicine. The Neurological Journal Club —open to graduate students—meets each week.

For each Major course requiring laboratory work the laboratory fee is $2.50. For medical students this fee is included in the quarterly tuition fees.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

1. The Architecture of the Central Nervous System. Mj. Autumn Quarter.
Lectures: Mon., Tues., 9:30.
Laboratory: Thurs., Fri., 2:00–4:00.
PROFESSOR DONALDSON AND DR. HATAI.
Prerequisite: *Microscopic Anatomy.*
(Laboratory fee, $2.50).

2. The Growth of the Brain and its Physical Characters as related to Intelligence. Mj. Winter Quarter.
Lectures: Mon., Tues., 9:30.
Laboratory: Thurs., Fri., 2:00–4:00.
PROFESSOR DONALDSON AND DR. HATAI.
Prerequisite: *Microscopic Anatomy.*
(Laboratory fee, $2.50).

3. Gross and Microscopic Anatomy of the Human Central Nervous System and Sense Organs. This is a required course for medical students. Mj. Spring Quarter.
Lectures: Mon., Tues., 8:30.
Recitation: Wed., 8:30.
Laboratory: Mon., 9:30–1:00; Tues., 11:00–1:00. PROFESSOR DONALDSON, DR. HATAI, AND ASSISTANTS.
Prerequisite: *Microscopic Anatomy.*
(Laboratory fee, $2.50).

3A. Gross and Microscopic Anatomy of the Human Central Nervous System and Sense Organs (repeated). See Course 3.
DM. First Term, Summer Quarter.
Lectures: Mon.–Thurs., 8:30.
Laboratory: 10 hrs. a week. DR. HATAI.
Prerequisite: *Microscopic Anatomy.*
(Laboratory fee, $2.50).

11. Physical and Chemical Characters of the Nervous System in relation to Histological Technique.
DM. Second Term, Summer Quarter.
Lectures: Mon.-Thurs., 8:30.
Laboratory: 10 hrs. a week. DR. HATAI.

11A. Physical and Chemical Characters of the Nervous System in Relation to Histological Technique. ½Mj. Autumn Quarter.
Lectures and Laboratory work.
Hours to be arranged. DR. HATAI.

12. Cytology of the Neurone. ½Mj. Winter Quarter.
Lectures and Laboratory work.
Hours to be arranged.
DR. HATAI.

4, 5, 6. Seminar.—The purposes of the Seminar are threefold:

a) Initiation into the methods of research.

b) The history of the guiding conceptions in Neurology.

c) Discussion of such literature as is too technical for presentation at a general Journal Club.

3Mj. Autumn, Winter, and Spring Quarters.
2 hrs. a week.
Autumn, Winter and Spring Quarters, 3:00-5.00.
PROFESSOR DONALDSON.

Admission to the Seminar is granted only after consultation with the head of the department.

7, 8, 9, 10. Research Courses: *The Study of Neurological Problems.* 4Mj. Summer Quarter.
DR. HATAI.
Autumn, Winter, and Spring Quarters.
Laboratory work. Throughout the year.
PROFESSOR DONALDSON AND DR. HATAI.
Prerequisite: *A knowledge of the main facts of Neurology.*

XXVI. THE DEPARTMENT OF PALÆONTOLOGY.

OFFICERS OF INSTRUCTION.

SAMUEL WENDELL WILLISTON, M.D., PH.D., *Professor of Palæontology.*

FELLOW.

1904-1905.

EDWIN BAYER BRANSON, A.B.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. Mj=Major course=a single course for twelve weeks.

SENIOR COLLEGE COURSES.

1. **History of Vertebrate Organisms:** ***Fishes and Amphibians.***—A discussion of the geologic time-periods; the growth and changes of continents, the distribution of land and water, climatic conditions, etc., so far as they relate to the environments and distribution of life in the past. The introduction, evolution, classification, and distribution of fishes and amphibians. Lectures and recitations.
Mj. Autumn Quarter; 11:00-1:00.
PROFESSOR WILLISTON.

2. **History of Vertebrate Organisms:** ***Reptiles, Birds, and Mammals.***—A continuation of Course 1; if taken independently, a preliminary knowledge of historical geology is necessary. Lectures and recitations. Mj. Winter Quarter; 11:00-1:00.
PROFESSOR WILLISTON.

3. **Comparative Osteology.**—The comparative osteology of living and extinct animals. Lectures and laboratory. Mj. Spring Quarter.
Lectures: Mon., Wed., 11:00.
Laboratory: Tues., Thurs., Fri., 11:00-1:00.
PROFESSOR WILLISTON.

14. **Field Work.**—A limited number of students may accompany field expeditions, by special arrangement with the head of the department.
DMj. Summer Quarter.
PROFESSOR WILLISTON.
Prerequisite: *Courses, 1, 2, and 3, or equivalent.*

GRADUATE COURSES.

11, 12, 13. **Vertebrate Palæontology.**—Special research. Hours arranged to suit individual students.
3Mj. or 3DMj. Autumn, Winter, and Spring Quarters. PROFESSOR WILLISTON.
Prerequisite: *Courses 1, 2, and 3, or equivalent.*

Courses in PALÆONTOLOGIC GEOLOGY are offered in connection with the Department of Geology as follows:

18. **Geologic Life Development.**—A study of the introduction and succession of the ancient forms of life in their geologic relationships, constituting historical geology studied on the life side.
Laboratory: Tues.
Lectures: Mon., Wed., Fri., 2:00.
Mj. Spring Quarter.
ASSISTANT PROFESSOR WELLER.

21. **Palæontologic Geology.**—A study of the hard parts of invertebrate animals preserved as fossils, their classification and their geologic and geographic distribution; followed by special class study of the life of a selected geologic period. Lectures and laboratory work.
Mj. Winter Quarter.
Lectures: Tues., Thurs., 12:00.
Laboratory: Mon., Wed., Fri., two hours as arranged.
ASSISTANT PROFESSOR WELLER.

22. A continuation of Course 21.
Laboratory: Hours as arranged.
Mj. Spring Quarter.
ASSISTANT PROFESSOR WELLER.

24, 25. **Special Palæontologic Geology.**—Individual work on the life of special geologic periods or formations, or on other selected themes in historical or applied Palæontology.
Laboratory: Hours arranged to suit individual students.
Mj. or DMj. Winter and Spring Quarters.
ASSISTANT PROFESSOR WELLER.

XXVII. THE DEPARTMENT OF BOTANY.

OFFICERS OF INSTRUCTION.

JOHN MERLE COULTER, A.M., Ph.D., *Professor and Head of the Department of Botany.*
CHARLES REID BARNES, A.M., Ph.D., *Professor of Plant Physiology.*
BRADLEY MOORE DAVIS, Ph.D., *Assistant Professor of Morphology.*
CHARLES JOSEPH CHAMBERLAIN, A.M., Ph.D., *Instructor in Morphology and Cytology.*
HENRY CHANDLER COWLES, Ph.D., *Instructor in Ecology.*
FLORENCE MAY LYON, Ph.D., *Associate in Morphology.*
BURTON EDWARD LIVINGSTON, Ph.D., *Assistant in Physiology.*
HEINRICH HASSELBRING, S.B., *Assistant in Botany.*
WILLIAM JESSE GOAD LAND, S.B., *Assistant in Morphology.*
CLIFTON DURANT HOWE, A.B., S.M., *Assistant in Ecology.*

FELLOWS.

1904-1905

IRA DETRICH CARDIFF, S.B. WILLIAM CROCKER, A.B., A.M.
CALVIN HENRY KAUFFMAN, A.B.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.*

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

The courses fall naturally into groups under the following classification:

I. *Special Morphology.*—The courses enumerated under this head (10–15) expand the work of Courses 7, 8 and 9, and consider in detail the different groups of plants there studied. They are intended to furnish the training necessary for independent research in morphology. Courses 10, 12, and 13 make up a year's work, offered in alternate years with Courses 11, 14, and 15. Courses 18 and 19 are for research students and demand familiarity with German and French.

II. *Physiology.*—Courses 20–22 include work in the fundamental principles of physiology and constitute a continuous course (though they may be elected separately and in any order) prerequisite to research work in physiology. Course 26 may be elected instead of 2 as an introduction to physiology, and a preparation for 20–22. The laboratory observations in these courses sometimes require work at irregular and unusual hours which those electing them should be willing to give. Students should be able to read German readily, and must be acquainted with the fundamental principles of physics and inorganic chemistry. Physics 1 and 2, or 3, and Chemistry 1, 2, 3, are highly desirable antecedents, and may in future be made prerequisites. Especial stress during all three courses will be laid upon the regulation of all functions through irritability.

III. *Ecology.*—Courses 30, 32, and 34 constitute a series, but are independent of one another, and hence may be elected separately. The ability to read German is a decided advantage in all the courses in ecology.

10. **Special Morphology of Algae.**† — Critical studies of typical algae, accompanied by lectures upon the morphology and relationships of the group.
Mj. or DMj. Autumn Quarter, 1905.
Lectures: Mon., Wed., 9:30; conference: Fri. 9:30.
Laboratory: Tues., Thurs. 8:30–10:30.
Assistant Professor Davis.
Prerequisite: *Courses 4 and 7.*
(Laboratory fee, $2.50.)

10A. **Special Morphology of Algae.**—Course 10 is repeated at the Marine Biological Laboratory at Woods Hole, Mass., the illustrative material being chiefly marine. Credit is given by the University of Chicago.
Mj. or DMj. Summer Quarter.
Assistant Professor Davis.

11. **Special Morphology of Fungi.**† — Critical studies of fungi form the basis of a course of lectures on morphology, relationships, and origin of the

* Unless otherwise indicated.
† Courses 10, 12, 13 are offered in alternate years with Courses 11, 14, 15.

group. Practical acquaintance with methods of artificial culture is an important feature of the course. Mj. or DMj. Spring Quarter.

Lectures: Mon., Wed., 9:30; conference: Fri., 9:30.

Laboratory: Tues., Thurs., 8:30–10:30.

ASSISTANT PROFESSOR DAVIS.

Prerequisite: *Courses 4 and 7.*

(Laboratory fee, $2.50.)

12. **Special Morphology of Bryophytes.**† — Critical studies of typical liverworts and mosses, accompanied by lectures upon the morphology, genetic relationships, and origin of the group.

DMj. Winter Quarter, 1906.

Lectures: Mon., Wed., 9:30.

Laboratory: Tues., Thurs., Fri., 8:30-10:30.

PROFESSOR BARNES AND DR. CHAMBERLAIN.

Prerequisite: *Courses 4 and 8.*

(Laboratory fee, $2.50.)

13. **Special Morphology of Pteridophytes.**†— Similar method and purpose to Course 12, the lectures also discussing the relation of the group to Spermatophytes. DMj. Spring Quarter, 1906.

Lectures: Mon., Wed., 9:30.

Laboratory: Tues., Thurs., Fri., 8:30–10:30.

DMj. Summer Quarter.

PROFESSOR COULTER AND DR. CHAMBERLAIN.

Prerequisite: *Courses 4 and 8.*

(Laboratory fee, $2.50.)

14. **Special Morphology of Gymnosperms.**†— Critical studies of the gymnosperm types are made, and a course of lectures discusses the morphology, genetic relationships, and origin of the group, both ancient and modern.

DMj. Autumn Quarter.

Lectures: Mon., Wed., 9:30.

Laboratory: Tues., Thurs., Fri., 8:30–10:30.

PROFESSOR COULTER AND DR. CHAMBERLAIN.

Prerequisite: *Courses 4 and 9.*

(Laboratory fee, $2.50.)

15. **Special Morphology of Angiosperms.**† — A continuation of Course 14, treating monocotyledons and dicotyledons. DMj. Winter Quarter.

Lectures: Mon., Wed., 9:30.

Laboratory: Tues., Thurs., Fri., 8:30–10:30.

PROFESSOR COULTER AND DR. CHAMBERLAIN.

Prerequisite: *Courses 4 and 9.*

(Laboratory fee, $2.50.)

17. **Cytology.**—This course deals with the structure and life-history of the plant cell. Special attention will be given to the bearing of cytology upon theories of heredity and evolution. Designed for research students.

Mj. Winter Quarter.

Lectures: Mon., Wed., 2:00.

Laboratory: Tues., Thurs., Fri., 2:00–4:00.

DR. CHAMBERLAIN.

Prerequisite: *Course 4.*

(Laboratory fee, $2.50.)

18. **Advanced Morphology.**— Designed for advanced students who wish to prosecute further studies in the morphology of any particular group, without undertaking a definite problem in research. Instructor must be consulted before registering.

PROFESSORS COULTER AND BARNES, ASSISTANT PROFESSOR DAVIS, AND DR. CHAMBERLAIN.

Prerequisite: the course in *Special Morphology* of group chosen.

(Laboratory fee, $2.50.)

19. **Research in Morphology.**— Only those students will be admitted to this work whose training in technique and special morphology enables them to be independent. Mj. or DMj.

Throughout the year.

PROFESSORS COULTER AND BARNES, ASSISTANT PROFESSOR DAVIS, AND DR. CHAMBERLAIN.

(Laboratory fee, $2.50.)

20. **Plant Physics.** — This course is designed to acquaint the student with the plant processes which are essentially physical, such as maintenance of bodily form, turgor, absorption, movement of substances in the body, and transpiration. Mj. or DMj. Autumn Quarter.

Lectures: Mon., Wed., 3:00.

Laboratory: Tues., Thurs., Fri., 2:00–4:00.

PROFESSOR BARNES AND DR. LIVINGSTON.

Prerequisite: *Course 2 or 26.* Desirable antecedents: *Physics, 1, 2, 3, 11; Botany, 3, 7, 8, 9.*

(Laboratory fee, $2.50.)

21. **Plant Chemics.** — A continuation of Course 20, devoted to the study of metabolism, including the manufacture, digestion, and assimilation of foods; respiration; waste products.

Mj. Summer Quarter.

Mj. or DMj. Winter Quarter.

Lectures: Mon., Wed., 3:00.

Laboratory Work: Tu., Th., Fri., 2:00–4:00.

PROFESSOR BARNES AND DR. LIVINGSTON.

Prerequisite: *Course 2 or 26.* Desirable antecedents: *Chemistry, 1, 2, 3, 4; Botany, 20.*

(Laboratory fee, $2.50.)

22. **Growth and Movement.** — A continuation of Courses 20 and 21. The phenomena of growth and movement will be examined with especial reference to the influence of external agents upon them through irritability.

Mj. or DMj. Spring Quarter.

Lectures: Mon., Wed., 3:00.
Laboratory: Tues., Thurs., Fri., 2:00–4:00.
PROFESSOR BARNES AND DR. LIVINGSTON.

Prerequisite: *Course 2 or 26.* Desirable antecedents: *Courses 20, 21.*

(Laboratory fee, $2.50.)

23. **Experimental Morphology.**—A study of the nature of the factors that control the development and reproduction of plant organisms. Hours to be arranged. Mj. Spring Quarter.

Lectures: Two each week.
Laboratory: At least six hours each week.
DR. LIVINGSTON.

Prerequisite: *Courses 20, 21, 22 (or the latter concurrent), and 30.*

(Laboratory fee, $2.50.)

29. **Research in Physiology.**—Requires special training in physiology and the fundamental physics and chemistry. Registration only after consultation.

PROFESSOR BARNES AND DR. LIVINGSTON.

(Laboratory fee, $2.50.)

30. **Ecological Anatomy.** — Plant tissues from the standpoint of origin and function; follows or runs parallel with Course 3.

Mj. Autumn Quarter.
M. First Term. Summer Quarter.

Lectures: Tues., Thurs., 11:00.
Laboratory: Mon., Wed., Fri., 11:00–1:00.
DR. COWLES AND MR. HOWE.

Prerequisite: *Courses 1, 2, 3.*

(Laboratory fee, $2.50.)

32. **Geographic Botany.** — This course presents regional and world problems, in contrast to the local field problems treated in Courses 3 and 34.

Mj. Winter Quarter.

Lecture or Conference daily: 8:30.
DR. COWLES.

Prerequisite: *Course 3,* and preferably *Historical Geology.*

34. **Physiographic Ecology.**—Origin, development, and death of the various plant associations, especially such as are found in the United States and Canada. Mj. Spring Quarter.

Lectures: Tues., Thurs., 8:30.
Field Work: Mon., Wed., 4:00–6:00, and Saturday morning.

M. Second Term, Summer Quarter.

Lectures: Tues., Thurs., 3:30.
Field work: Mon., Wed., 3:30–5:30 and Sat. afternoon. DR. COWLES.

Prerequisite: *Botany 3, Physiography,* and preferably *Geographic Geology.*

36. **Field Ecology.**—Designed to supplement the local work in ecology at the University. The whole time of the student will be required while in the field; the remainder of the term may be devoted to the preparation of a report. M., DM., 3M., or 4M., depending upon the quantity and quality of the work accomplished.

Second Term, Summer Quarter.
MR. HOWE.

In the Summer of 1903 Dr. Cowles conducted a party to Arizona. In 1904 Mr. Howe plans to conduct a party to the Adirondacks and Green Mountains.

38. **Seminar in Ecology.**—This course is intermediate between Courses 30–35 and research work. In general, the Seminar work for each Quarter will run parallel with the Ecological Course (30–35) given at the time. Mj. or DMj.

DR. COWLES.

39. **Research in Ecology.**—This course requires special training in ecology, and in related lines of study, especially geology and plant physiology.

Mj. or DMj.
DR. COWLES.

40. **Elementary Plant Pathology.**—A study of the life-histories of a number of the commoner forms of parasites which cause plant diseases, together with their physiology and that of the infected plants. Special attention will be given to the peculiar conditions and responses arising from the relation of parasite and host.

Mj. Autumn Quarter.

Lectures: Tues., Thurs., 3:00.
Laboratory: Mon., Wed., Fri., 2:00–4:00.
Morphology, First Term, MR. HASSELBRING.
Physiology, Second Term, DR. LIVINGSTON.

Special Lectures.—PROFESSOR HUGO DEVRIES, of Amsterdam, author of the "Mutation Theory" of the origin of species, will give a course of five lectures during the Second Term of the Summer Quarter.

XXVIII. THE DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY.

OFFICERS OF INSTRUCTION.

LUDVIG HEKTOEN, M.D., *Professor of Pathology, and Head of the Department of Pathology and Bacteriology.*
EDWIN OAKES JORDAN, Ph.D., *Associate Professor of Bacteriology.*
HARRY GIDEON WELLS, Ph.D., M.D., *Assistant Professor in Pathology.*
HOWARD TAYLOR RICKETTS, A.B., M.D., *Instructor in Pathology.*
BROWN PUSEY, M.D., *Instructor in the Pathology of the Eye.*
NORMAN MacLEOD HARRIS, M.B., *Instructor in Bacteriology.*
————————, *Assistant in Pathology.*
————————, *Assistant in Bacteriology.*
THOR ROTHSTEIN, A.B., M.D., *Research Assistant in Neuropathology.*
MARY HEFFERAN, Ph.D., *Assistant and Curator of the Bacteriological Museum.*

WILFRED HAMILTON MANWARING, M.D., *Assistant in Pathology* (Summer Quarter, 1904).

FELLOWS.

1904-1905.

JOHN RAYMOND BARBER, A.B. DUDLEY WATSON DAY, S.B.
WILFRED HAMILTON MANWARING, S.B.

INTRODUCTORY.

The courses offered by the department include such as cover the required work in Pathology and Bacteriology in the curriculum of the first two years in the study of medicine, as well as advanced courses arranged for those desiring a more extended knowledge of the subjects, and for those wishing to qualify themselves for research.

The Department possesses all necessary equipment for pathological and bacteriological work. Abundant desk-room, with lockers, is provided. There is a good museum for teaching purposes, and a fairly ample special library containing complete files of the important serials. Sufficient material and apparatus for advanced work and special research are provided.

For each Major or Double Minor Course requiring laboratory work the laboratory fee is $2.50.

COURSES OF INSTRUCTION.

Summer Quarter, 1904—Spring Quarter, 1905.

M=Minor course=a single course for six weeks. DM=Double Minor course=a double course (two hours daily) for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

GRADUATE COURSES.

8. **Pathology of the Eye.**—Special advanced pathology for practicing physicians and advanced students.
DM. First Term, Summer Quarter.
Hours arranged for each student.
DR. PUSEY.

[Not to be given in 1904.]

9. **Advanced Pathology.**—Open to a limited number of students who have credit in general pathology. Laboratory work will be given in pathological technique, the study and recording of autopsies, and special pathological material. Weekly conferences.
Mj. or DMj. Each Quarter.
Hours arranged for each student.
Summer Quarter.
ASSISTANT PROFESSOR WELLS.
Autumn, Winter, and Spring Quarters.
DR. RICKETTS.

10. **Research in Pathology.**—Open to a limited number of specially qualified students and graduates in medicine. Mj. or DMj. Each Quarter.
Hours to be arranged for each student.
PROFESSOR HEKTOEN, ASSISTANT PROFESSOR WELLS, AND DR. RICKETTS.

11. **Research in Bacteriology.**
Mj. or DMj. Each Quarter.
ASSOCIATE PROFESSOR JORDAN AND DR. HARRIS.

12A. **Special Pathology.**— A course of recitations, with demonstrations of anatomical specimens, on the pathological processes of the different viscera. ½Mj. Summer Quarter.
Hours to be arranged.
ASSISTANT PROFESSOR WELLS.
Prerequisite: *General Pathology.*

12B. **Laboratory Course.**— Supplementary to 12A.
½Mj. Summer Quarter.
Hours arranged for each student.
ASSISTANT PROFESSOR WELLS.

13A. **Laboratory Course in Immunity.**—Immunization of animals. Cytolysis (including hemolysis and bacteriolysis), agglutination, toxins and antitoxins, etc. An experimental course.
½Mj. or M. Autumn Quarter.
Hours to be arranged.
DR. RICKETTS.
Prerequisite: *Bacteriology.*

13B. **Lecture Course in Immunity.**—This will include a consideration of the theories of immunity, the reactions and substances concerned, and the present status of immunity in various infectious diseases; also compensation and adaptation in disease processes.
Supplementary to 13A, but may be taken independently. ½Mj. or M. Autumn Quarter.
Hours to be arranged. DR. RICKETTS.
Prerequisite: *Bacteriology.*

14. **Bacteriology of Autopsies.**— Open to a limited number of students. Study will be made of bacteriological material obtained at autopsies. Conferences weekly. This course is associated with Course 9. Mj. Each Quarter.
ASSOCIATE PROFESSOR WELLS, DRS. RICKETTS AND HARRIS.

16. **Sanitary Aspects of Milk Supply.**—Practice in laboratory methods of the examination of milk.
Mj. Winter Quarter.
Hours to be arranged. DR. HARRIS.
Prerequisites: *Chemistry and Bacteriology.*

17. **The Patholgenic Protozoa.**
½Mj. Spring Quarter.
Hours to be arranged. DR. HARRIS.

REGISTRATION OF STUDENTS, 1903-4.

ABBREVIATIONS.—ACADEMIC RECORD.—In the statement of academic record, *u.*= University; *c.*= College; *s.*= School; *sm* = Seminary; *hs.*= High School; *a.*= Academy; *inst.*= Institute (or Institution).

PERIOD OF RESIDENCE.—*s*=Resident during Summer Quarter, 1903.—*a*=Resident during Autumn Quarter, 1903.—*w*=Resident during Winter Quarter, 1904.—*sp*=Resident during Spring Quarter, 1904.

†=Graduate Students studying abroad.

In the list of subjects following the Academic record the principal subject is placed first. (*fel.*) indicates "fellow" in department.

THE GRADUATE SCHOOLS OF ARTS, LITERATURE, AND SCIENCE.

I. DOCTORS OF PHILOSOPHY PURSUING SPECIAL COURSES.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Bruce, Preston Pishon, *w*	A.B. (*Cornell c.*) '93; Ph.D. (*u. of Chicago*) '02. Semitic	Manchester, Ia.
Engle, John Franklin, *s*	Ph.B. (*Illinois Wesleyan u.*) '01; Ph.D. (*u. of Wooster*) '98. Political Economy	Logan, Utah
Eskridge, James Burnette, *s*	S.B. (*Southern u. of Kentucky*) '88; A.B. (*Ibid.*) '90; A.M. (*Burritt c.*) '94; Ph.D. (*Cumberland u.*) '97; A.M. (*u. of Chicago*) '03. Latin	Hermonson, Tex.
Frye, Theodore Christian, *s*	S.B. (*u. of Illinois*) '94; Ph.D. (*u. of Chicago*) '02. Botany	Congerville
Graves, Frank Pierrepont, *s a w*	A.B. (*Columbia u.*) '90; A.M. (*Ibid.*) '91; Ph.D. (*Boston u.*) '92; Litt.D. (*Heidelberg u., Ohio*) '97; LL.D. (*Hanover c.*) '97. Education, Philosophy (*fel.*)	Seattle, Wash.
Henderson, Archibald, *s*	A.B. (*u. of North Carolina*) '98; A.M. (*Ibid*) '99; Ph.D. (*Ibid.*) '01. Mathematics	Chapel Hill, N. C.
Jones, Cecil Charles, *w*	A.B. (*u. of New Brunswick*) '97; A.B. *Harvard u.*) '98; A.M. (*u. of New Brunswick*) '99; Ph.D. (*Ibid.*) '02. Mathematics, Astronomy	Wolfville, N. S.
Lewis, Orlando Franklin, *s*	A.B. (*Tufts c.*) '95; A.M. (*Ibid.*) '97; Ph.D. (*Penn c.*) '00. Sociology, German	Orono, Me.
Loux, Dubois H., *s*	A.B. (*u. of Wooster*) '92; A.M. (*Ibid.*) '95; Ph.D. (*Ibid.*) '97. English, Sociology	Chicago
Lowden, Thomas Scott, *s*	A.B. (*Thiel c.*) '92; A.M. (*Ibid.*) '94; Ph.D. (*u. of Wooster*) '95. Philosophy	Greencastle, Ind.
Mitchell, Samuel Childs, *s*	A.M. (*Georgetown c.*) '88; Ph.D. (*u. of Chicago*) '99. Political Science, History	Richmond, Va.
Moncreiff, William Franklin, Sr., *s*	A.B. (*u. of Nashville*) '89; A.M. (*Ibid.*) '92; Ph.M. (*u. of Chicago*) '99; Ph.D. (*Ibid.*) '00. Mathematics	Chicago
Neilson, Charles Hugh, *s a w*	A.B. (*Ohio Wesleyan u.*) '94; A.M. (*Ibid.*) '97; Ph.D. (*u. of Chicago*) '02. Physiology	Robinson
Norton, Edwin Lee, *a w*	A.B. (*Amherst c.*) '93; A.M. (*Harvard u.*) '97; Ph.D. (*Ibid.*) '00. Education, Philosophy	Northfield, Minn.
Reid, Ebenezer Emmet, *s*	A.M. (*Richmond c.*) '92; Ph.D. (*Johns Hopkins u.*) '98. Astronomy, Chemistry	Charleston, S. C.
Stephenson, James Pomeroy, *s*	A.B. (*Oberlin c.*) '67; A.M. (*Ibid.*) '87; Ph.D. (*Ibid.*) '91. Philosophy	Iowa City, Ia.
Sulzberger, Nathan, *s*	Ph.D. (*u. of Munich*) '00. Chemistry	Chicago
Tawny, Guy Allan, *s*	A.B. (*Princeton c.*) '93; A.M. ((*Ibid.*) '94; Ph.D. (*Leipzig u.*) '96. Philosophy	Beloit, Wis.
Wells, Harry Gideon, *w*	Ph.B. (*Yale u.*) '95; A.M. (*Lake Forest c.*) '98; M.D. (*Rush Medical c.*) '98; Ph.D. (*u. of Chicago*) '03.	Chicago
Wilson, Thomas James, Jr., *s*	A.B. (*u. of North Carolina*) '94; A.M. (*Ibid.*) '96; Ph.D. (*Ibid.*) '98. Latin	Chapel Hill, N. C.
MEN — 20.	WOMEN — 0.	TOTAL — 20.

II. STUDENTS ADMITTED TO CANDIDACY FOR HIGHER DEGREES.

NOTE.—Students are admitted to candidacy for higher degrees by vote of the faculty on approval of the thesis subject and fulfilment of other conditions under the regulations.

Where the name of a student appears in this list with the degree of Ph.D. indicated, it will be understood that the degree was conferred during the Academic year.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Adams, Elizabeth Kemper, *s a w*	A.B. (*Vassar c.*) '02. Philosophy, Neurology	Cranford, N. J.
Allen, Carlos Eben, *s*	A.B. (*Carleton c.*) '94. German, Latin	Carbondale
Allen, Jessie Blount, *s a w*	A.B. (*u. of Washington*) '99; A.M. (*Ibid.*) '01. Philosophy, Neurology (*fel.*)	Seattle, Wash.
Appleton, Lilla Estelle, *s a w*	L.B. (*Oberlin c.*) '86; Ph.B. (*Ibid.*) '90; Ph.M. (*u. of Chicago*) '03. Philosophy	St. Cloud, Minn.
Atwater, Ellen Bessie, *s*	A.B. (*Cotner u.*) '91; A.M. (*u. of Chicago*) '02. History (*fel.*), Latin	Hastings, Neb.
Axtell, Harold Lucius, *s a*	A.B. (*Kalamazoo c.*) '97; A.B. (*u. of Chicago*) '98; A.M. (*Ibid.*) '00. Latin, Greek	Kalamazoo, Mich.
Bacon, Clara Latimer, *s*	A.B. (*Wellesley c.*) '90. Mathematics	Baltimore, Md.
Bacon, Raymond Foss, *a w*	S.B. (*DePauw u.*) '99; A.M. (*Ibid.*) '00. Chemistry (*fel.*)	Indianapolis, Ind.
Baker, Joanna, *s a*	A.B. (*Cornell c.*) '82; A.M. (*Ibid.*) '85; A.M. (*DePauw u.*) '88; A.M. (*u. of Chicago*) '03. Greek, Latin	Indianola, Ia.
Bastin, Edson Sunderland, *s a w*	A.B. (*u. of Michigan*) '02. Geology, Zoölogy	Highland Park
Bates, William Hunt, *s*	A.B. (*u. of Chicago*) '94; A.M. (*Ibid.*) '02. Mathematics	Smyrna, Tenn.
Beal, William Otis, *s*	S.B. (*Earlham c.*) '96; A.M. (*Haverford c.*) '97; S.M. (*u. of Chicago*) '02. Astronomy, Mathematics	Agricultural College, Mich.
Benedict, Laura Estelle Watson, *s a w*	A.B. (*u. of Chicago*) '00. Romance, English	Chicago
Bernstroff, Frank Adolph, *a w*	A.B. (*u. of Missouri*) '02. German	Oakdale
Best, Charles Lorton, *s a*	A.B. (*u. of Michigan*) '02; S.M. (*u. of Chicago*) '03. Pathology	Freeport
Bixler, William Shelton, *s w*	L.B. (*Lincoln u.*) '97; Ph.M. (*u. of Chicago*) '04. History, Political Science	Owensville, Ind.
Black, Ryland Melville, *s*	A.B. (*Ohio Wesleyan u.*) '95. History, Political Science	Wapleton, N. D.
Bonner, Robert John, *a w*	A.B. (*Toronto u.*) '90. Latin, History, Greek	New Hamburg, Ont.
Bonser, Thomas, *s*	Ph.B. (*Otterbein u.*) '99; S.M. (*u. of Chicago*) '03. Botany, Zoölogy	Carey, O.
Breslick, Ernest Rudolph, *s*	A.B. (*German Wallace c.*) '98; A.M. (*u. of Chicago*) '00. Mathematics, Astronomy	Elgin
Buchanan, Herbert Earle, *s*	A.B. (*u. of Arkansas*) '02; A.M. (*u. of Chicago*) '03. Mathematics, Astronomy	Canehill, Ark.
Carlton, Frank Tracy, *s*	S.B. (*Case School of Applied Science*) '95; M.E. (*Ibid.*) '99. Political Economy, Sociology, Political Science	Toledo, O.
Chapin, Luella, *a*	Ph.B. (*u. of Michigan*) '88; S.M. (*u. of Chicago*) '97. Geology	Chicago
Charters, Werrett Wallace, *a w*	A.B. (*McMaster u.*) '98; B.P. (*Toronto u.*) '98; Ph.M. (*u. of Chicago*) '03. Philosophy	Hagersville, Ont.
Condray, Benjamin Franklin, *s*	A.B. (*Ouachita c.*) '94: A.B. (*Stanford u.*) '97. Mathematics	Arkadelphia, Ark.
Derby, Ira Harris, *s*	S.B. (*Harvard u.*) '99. Chemistry, Physics	Lyme Centre, N. H.
Dey, Mary Helena, *a w*	A.B. (*McGill u.*) '00; A.M. (*u. of Chicago*) '02. Romance	Simcoe, Ont.
Dobbin, Emily Elizabeth, *s*	S.B. (*u. of Chicago*) '02; S.M. (*Ibid.*) '03. Astronomy	Kansas City, Mo.
Doubt, Thomas Eaton, *s a w*	S.B. (*Nebraska Wesleyan u.*) '92; S.M. (*u. of Nebraska*) '96; Ph.D. (*u. of Chicago*) '04. Physics (*fel.*)	Seattle, Wash.
Dykstra, Clarence Addison, *a w*	A.B. (*Iowa State u.*) '03. History	Cleveland, O.
Fleming, Daniel Johnson, *s a w*	S.B. (*Wooster u.*) '98; A.M. (*Columbia u.*) '03. Mathematics, Physics	Cleveland, O.
Fors, Andrew Peter, *a w*	A.B. (*Augustana c.*) '87; D.B. (*Ibid.*) '89; A.M. (*Ibid.*) '94; Ph.D. (*u. of Chicago*) '04. Comparative Religion, German, English	Chicago

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Frank, Tenney, *s a w*	A.B. (*Kansas u.*) '98; A.M. (*Ibid.*) '99; Ph.D. (*u. of Chicago*) '03. Latin, Greek	Kansas City, Mo.
Frisbie, Fannie Cornelia, *s*	A.B. (*Rockford c.*) '99. Physics, Mathematics	Rockford
Gandy, Della, *s*	Ph.B. (*Colorado c.*) '98; Ph.M. (*u. of Chicago*) '03. Latin	Colorado Springs, Colo.
Garner, Mary Virginia, *s a w*	L.B. (*Galloway c.*) '93; S.B. (*Vanderbilt u.*) '00; Ph.M. (*u. of Chicago*) '04. English, Literature (in English), Church History	Stephens, Ark.
Gladfelter, Edith Edna, *s a w*	A.B. (*Washington u.*) '02; S.M. (*u. of Chicago*) '04. Botany	St. Louis, Mo.
Goldthwaite, Nellie Esther, *s a w*	S.B. (*u. of Michigan*) '94. Chemistry, Physics	New York city.
Gould, Chester Nathan, *s a w*	A.B. (*u. of Minnesota*) '96; A.M. (*Ibid.*) '00. German, English	Napa, Calif.
Hague, Stella May, *s*	A.B. (*Emory c.*) '99; S.M. (*u. of Chicago*) '02. Physics, Chemistry	Atlanta, Ga.
Hall, David Connolly, *s*	Ph.B. (*Brown u.*) '91; S.M. (*u. of Chicago*) '93. Physiology	Boston, Mass.
Hamilton, John Bascom, *s a w*	A.B. (*u. of Texas*) '02; A.M. (*u. of Chicago*) '04. Political Economy	Edmonton, Ky.
Hatcher, Orie Latham, *s a*	A.B. (*Vassar c.*) '88; Ph.D. (*u. of Chicago*) '03. English (*fel.*)	Richmond, Va.
Hersman, Anne Bates, *a*	A.B. (*u. of Missouri*) '87; Ph.B. (*Ibid.*) '87; Greek, Latin	Wentzville, Mo.
Hewes, Amy, *s*	A.B. (*Woman's c., Baltimore*) '97; Ph.D. (*u. of Chicago*) '03. Sociology, Political Science	Baltimore, Md.
Higley, Louis Allen, *s*	S.B. (*u. of Chicago*) '00. Chemistry	Willmotte, O.
Hill, Herbert Wynford, *s a w*	L.B. (*u. of California*) '00; Ph.M. (*u. of Chicago*) '04. English	Santa Ana, Calif.
Hill, Roscoe R., *a w*	A.B. (*Eureka c.*) '00. History	Mackinaw
Howard, Earl Dean, *a w*	Ph.B. (*u. of Chicago*) '02; Ph.M. (*Ibid.*) '03. Political Economy (*fel.*)	Chicago
Hoy, Clinton Luman, *a w*	Ph.B. (*u. of Chicago*) '00. Anatomy, Pathology	Woodstock
Ingbert, Charles, *s*	A.B. (*u. of North Dakota*) '95; Ph.D. (*u. of Chicago*) '03. Neurology	Chicago
Jones, Albert Lincoln, *s*	A.B. (*Leland Stanford Jr. u.*) '95. Philosophy, Mathematics, Political Science	San Jose, Calif.
Jones, Charles William, *s a w*	A.B. (*u. of Nebraska*) '00. Philosophy	Tonganoxie, Kan.
Jones, Florence Nightingale, *s*	A.B. (*Oberlin c.*) '83; A.M. (*u. of Nebraska*) '91; Ph.D. (*u. of Chicago*) '03. Romance, Latin	Chicago
Kenyon, John Samuel, *s a w*	A.B. (*Hiram c.*) '98; A.M. (*u. of Chicago*) '03. English (*fel.*)	Medina, O.
King, Walter Scott, *s*	A.B. (*Butler c.*) '97; Ph.M. (*u. of Chicago*) '03. Philosophy, Education	Richmond, Ind.
Kueffner, Louise Delia, *s*	A.B. (*Washington u.*) '93; A.M. (*Ibid.*) '96. German, Romance	Boston, Mass.
Kyle, James William, *s*	A.B. (*Denison u.*) '94; A.M. (*u. of Chicago*) '00. Greek, Latin	Riverside, Calif.
Lampadius, John Gottfried Hermann, *s*	A.B. (*u. of Southern California*) '01. German	Englewood
Lennes, Nels Johann, *s*	S.B. (*u. of Chicago*) '98; S.M. (*Ibid.*) '03. Mathematics, Astronomy	Chippewa Falls, Minn.
Long, John Andrew, *s*	A.B. (*Ohio Wesleyan u.*) '88; A.M. (*Ibid.*) '91. Education, English	Chillicothe, O.
Lutz, Frank Eugene, *a w*	A.B. (*Haverford c.*) '00; A.M. (*u. of Chicago*) '02. Zoölogy, Botany	Bloomsburg, Pa.
Lynde, Carleton John, *s a w*	A.B. (*u. of Toronto*) '95. Mathematics, Physics	Madoc, Ont.
Maclear, John F., *s*	A.B. (*u. of Chicago*) '02; A.M. (*Ibid.*) '03. History	Chicago
McCurdy, Hansford, *s*	A.B. (*Ohio Wesleyan u.*) '95. Botany	Kansas City, Mo.
McKeever, William Arch, *s*	A.B. (*Campbell u.*) '93; A.M. (*Ibid.*) '96; A.M. (*u. of Kansas*) '98. Philosophy	Manhattan, Kan.
McNeish, Harris Franklin, *s a w*	S.B. (*u. of Chicago*) '02; S.M. (*u. of Chicago*) '04. Mathematics	Chicago
Mangold, George Benjamin, *s*	A.B. (*Cornell c.*) '01; A.M. (*u. of Chicago*) '03. Political Economy, Sociology, History	Epechts Ferry, Ia.
Marsh, George Linnæus, *s*	A.B. (*Iowa c.*) '92; A.M. (*u. of Chicago*) '99; Ph.D. (*Ibid.*) '03. English	Marshalltown, Ia.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Matheny, Martha Belle, *s*	S.B. (*Illinois Wesleyan u.*) '95; A.M. (*u. of Chicago*) '00. Latin, Greek	Colfax, Ia.
Merritt, Albert Newton, *a w*	A.B. (*Battle Creek c.*) '99; A.B. (*Leland Stanford u.*) '01; A.M. (*u. of Chicago*) '04. Political Economy, Political Science	Lohrville, Ia.
Miller, Catherine Ann, *s a w*	A.B. (*u. of Chicago*) '03. German, English	Morristown, Tenn.
Miller, Irving Elgar, *s a w*	A.B. (*u. of Rochester*) '94; A.M. (*Ibid.*) '98; A.M. (*u. of Chicago*) '02. Philosophy (*fel.*)	West Springfield, Pa.
Misener, Geneva, *s a*	A.M. (*Queen's u.*) '99; Ph.D. (*u. of Chicago*) '03. Greek (*fel.*), Latin	Ontario, Can.
Moore, John Allan, *s*	A.B. (*Wooster u.*) '00; A.M. (*u. of Chicago*) '03. Latin, Greek	Carrollton, O.
Pace, Lula, *s*	S.B. (*Baylor c.*) '90; S.M. (*u. of Chicago*) '02. Botany	Temple, Tex.
Parker, Achsa, *s a w*	A.B. (*u. of Michigan*) '88. English, History	Mankato, Minn.
Paullin, Charles Oscar, *s w*	S.B. (*Union Christian c.*) '93; S.S.B. (*Catholic u. of America*) '97. History, Political Science	Washington, D. C.
Peele, David Derrick, *s*	A.B. (*Trinity c.*) '01; A.M. (*u. of Chicago*) '03. English, German	Gibson, N. C.
Phelps, Virgil Vivian, *s a*	Ph.B. (*u. of Chicago*) '01; Ph.M. (*Ibid.*) History	Chicago
Pirscher, Jane Marie Louise, *s*	Ph.B. (*u. of Chicago*) '02; Ph.M. (*Ibid.*) '03. Romance, German	Chicago
Porterfield, Cora Maud, *s*	A.B. (*u. of Chicago*) '96; A.M. (*Ibid.*) '97. Latin, Greek	Normal
Potter, Milton Chase, *s*	Ph.B. (*Albion c.*) '95; Pd.B. (*Michigan State Normal c.*) '96. History, Political Science	Mancelona, Mich.
Praeger, William Emilius, *s a w*	S.B. (*u. of Illinois*) '00; S.M. (*u. of Chicago*) '03. Botany, Geology	Keokuk, Ia.
Prokosch, Edouard, *a w*	Ariturienten Examen (*u. of Austria*) '94; Staats Examen (*u. of Vienna*) '97; A.M. (*u. of Chicago*) '01. German, Sanskrit	Chicago
Radford, Maude Lavenia, *a w*	Ph.B. (*u. of Chicago*) '94; Ph.M. (*Ibid.*) '96. English	Chicago
Ransom, Caroline Louise, *a w*	A.B. (*Mt. Holyoke c.*) '96; A.M. (*u. of Chicago*) '00. History of Art (*fel.*)	Toledo, O.
Ranson, Stephen Walter, *s*	S.B. (*u. of Chicago*) '02; S.M. (*Ibid.*) '03. Neurology, Physiology	Dodge Center, Minn.
Raymond, Josephine (Mrs.), *a w*	L.B. (*Northwestern u.*) '92; L.M. (*u. of Wisconsin*) '97. Sociology, Political Science	Chicago
Robb, Mary Ellen, *s*	Ph.B. (*Granville c.*) '01. Latin	Evansville, Ind.
Ross, Clarence Frisbie, *s*	A.B. (*Allegheny c.*) '91; A.M. (*Ibid.*) '93. Latin, Greek	Meadville, Pa.
Row, Robert Keable, *s*	A.B. (*Queen's u.*) '97. Education, Philosophy	Chicago
Scherf, Charles Henry, *s*	S.B. (*Baldwin u.*) '01; S.M. (*u. of Chicago*) '02. Zoölogy	Elizabeth, N. J.
Shaw, Arthur Wynne, *s a w*	A.B. (*Yale u.*) '92; A.M. (*Ibid.*) '95. Philosophy	Waverly, Ia.
Shull, George Harrison, *s a w*	S.B. (*Antioch c.*) '91; Ph.D. (*u. of Chicago*) '04. Botany	New Carlisle, O.
Sinclair, Mary Emily, *a w*	A.B. (*Oberlin c.*) '00; A.M. (*u. of Chicago*) '03. Mathematics (*fel.*), Astronomy	Hartford, Conn.
Smith, Isabel Seymour, *s*	A.B. (*Oberlin c.*) '01. Botany	Oberlin, O.
Smith, Walter Robinson, *s*	Ph.B. (*Missouri Valley c.*) '99; Ph.M. (*u. of Chicago*) '01. History, Political Science	Pratherville, Mo.
Spaulding, Myra Louise, *s*	A.B. (*u. of Chicago*) '00. Latin, Greek	Binghamton
Stenmo, Albert, *a w*	A.B. (*u. of North Dakota*) '98. History	Hatton, N. D.
Tofteen, Olaf Alfred, *s a w*	A.B. (*Higher State c., Sweden*) '85; (*Johns Hopkins u.*) '85. Semitic (*fel.*), Biblical Greek	Minneapolis, Minn.
Tolman, Judson Allen, Jr., *s w*	A.B. (*u. of Chicago*) '00; A.M. (*Ibid.*) '03. Latin	Chicago
Walker, Buzz M., *s*	S.B. (*Mississippi Agricultural & Mechanical c.*) '83; S.M. (*Ibid.*) '86. Mathematics	Agricultural and Mechanical College, Miss.
Webster, Homer Jeptha, *s a w*	S.B. (*Haverford c.*) '96; A.M (*Ibid.*) '97; Ph.M. (*u. of Chicago*) '02. History.	Quaker City, O.
Wildman, Murray Shipley, *s a w*	Ph.B. (*Earlham c.*) '93. Political Economy (*fel.*)	Knightstown, Ind.
Willcox, Oswin William, *s a w*	S.B. (*u. of Texas*) '01. Chemistry (*fel.*)	Austin, Tex.
Wood, Irving Francis, *s*	A.B. (*Hamilton c.*) '85; A.M. (*Ibid.*) '88; B.D. (*Yale u.*) '92; Ph.D. (*u. of Chicago*) '03. Semitic, Biblical Greek	Northampton, Mass.
Wylie, Gertrude Hulbert (Mrs.), *s a*	A.B. (*Smith c.*) '86; A.M. (*u. of Chicago*) '03. Semitic, Biblical Greek	Chicago

MEN — 72. WOMEN — 36. TOTAL — 108.

III. STUDENTS NOT YET ADMITTED TO CANDIDACY.

NOTE.— Students are admitted to candidacy for higher degrees by vote of the faculty on approval of the thesis subject and fulfilment of other conditions under the regulations.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Abbott, Edith, *a w*	A.B. (*u. of Nebraska*) '01. Political Economy (*fel.*), Sociology.	Grand Island, Neb.
Abbott, James Francis, *a w*	A.B. (*Leland Stanford Jr. u.*) '99. Zoölogy(*fel.*)	Greeley, Colo.
Abbott, Lillie Francie, *s*	A.B. (*u. of Chicago*) '01. Latin	Chicago
Abells, Harry Delmont, *s*	S.B. (*u. of Chicago*) '97. Chemistry	Uxbridge, Mass.
Adams, Orville Lewis, *a w*	A.B. (*Washington Agricultural c.*) '02. Anatomy, Physiology	Colfax, Wash.
Adams, Roy Bennett, *a*	A.B. (*u. of Nebraska*) '02. Anatomy, Physiology	Lincoln, Neb.
Adams, Victoria Anna, *a*	A.B. (*u. of Chicago*) '95. History, Political Science	Chicago
Aitchison, Harriet Ruth, *s*	Ph.B. (*Des Moines c.*) '01; Ph.B. (*u. of Chicago*) '02. Romance	Des Moines, Ia.
Alabaster, Francis Grace, *a*	L.B. (*Northwestern u.*) '93. History	Evanston
Albarus, Hedwig Selma, *w*	A.B. (*Toronto u.*) '95. German, English, Romance	Chicago
Albright, Evelyn May, *s*	A.B. (*Ohio Wesleyan u.*) '98; A.M. (*Ibid.*) '00. English, Philosophy	Delaware, O.
Alexander, Mabel, *a w*	Ph.B. (*Coe c.*) '02. English, German	Marion, Ia.
Allabach, Lulu Florence, *s*	Ph.B. (*Dickinson c.*); A.M. (*Ibid.*). Zoölogy	Lockhaven, Pa.
Allen, Florence Eliza, *s*	L.B. (*u. of Wisconsin*) '00; L.M. (*Ibid.*) '01. Mathematics	Madison, Wis.
Allin, Frank Wesley, *s*	S.B. (*Baker u.*) '93. Chemistry, Botany	Paola, Kan.
Anderson, Ernest, *s*	S.B. (*u. of Texas*) '03; A.B. (*Trinity c.*) '03. Botany	Tehuacana, Tex.
Anderson, Gottfred Emanuel, *s*	A.B. (*Bethany c.*) '99. German	Lundsburg Kan.
Anderson, Mary Perle, *a w*	S.B. (*Mount Holyoke c.*) '90. Botany, Zoölogy	East Berkshire, Vt.
Anderson, William, *s*	S.B. (*Kansas State Agricultural c.*) '98. Mathematics, Physics	Cleburne, Kan.
Andrews, Jessie, *s*	L.B. (*u. of Texas*) '86. German, English	Austin, Tex.
Annis, Homer Burnham, *a w*	A.B. (*Cornell c.*) '03. Anatomy, Physiology	Osage, Ia.
Appleby, Troy Wilson, *s a*	A.B. (*Morrisville c.*) '99. Mathematics	Morrisville, Mo.
Apthorp, Mary Elizabeth, *s*	A.B. (*Iowa c.*) '67; A.B. (*u. of Chicago*) '01. Latin	Oshkosh, Wis.
Armstrong, A. Joseph, *s*	A.B. (*Wabash c.*) '02. English	Louisville, Ky.
Arnold, Frank Russell, *s*	A.B. (*Bowdoin c.*) '93. Romance	Braintree, Mass.
Atchison, Alda Belle, *s*	A.B. (*Tarkio c.*) '01. German, Romance	Albia, Ia.
Audrain, Leslie Carl, *a w*	S.B. (*u. of Texas*) '02. Anatomy, Physiology	Roswell, N. M.
Averill, William Armitage, *s*	A.B. (*u. of Chicago*) '02. Chemistry	Chicago
Aylsworth, Mabel Whitford, *s*	A.B. (*Knox c.*) '98. English, Latin	Roseville
Babcock, Earle Brownell, *s*	Ph.B. (*u. of Chicago*) '03. Romance, History	Chicago
Bailey, Larry Pierce, *s*	A.B. (*Texas Christian u.*) '01. Mathematics	Waco, Tex.
Bailey, Mary Lulu, *s*	S.B. (*u. of Texas*) '87. Physics, Mathematics	Bonham, Tex.
Baker, Albert, *a w*	A.B. (*Toronto u.*) '01. German	Nottawa, Ont.
Baker, Clara, *s a*	A.B. (*Cornell c.*) '00. Romance	Chicago
Baker, Elizabeth, *s*	A.B. (*u. of Nashville*) '03. Philosophy	Oak Cliff, Tex.
Baker, Emma, *s*	A.B. (*Simpson c.*) '91; A.M. (*Ibid.*) '95. German, History	Indianola, Ia.
Baker, Walter Davis, *s*	A.B. (*Cornell c.*) '98. Physics, Chemistry	Mt. Vernon, Ia.
Balch, Charles Adams, *a*	S.B. (*Illinois c.*) '00. Chemistry	Joliet
Baldwin, Mary Elizabeth, *a w*	A.B. (*Butler c.*) '03; Ph.B. (*u. of Chicago*) '03. Sociology, Romance, English	Indianapolis, Ind.
Baldwin, William Alpheus, *a*	S.B. (*Harvard u.*) '97. Philosophy	Hyamino, Mass.
Bamford, Geneva May, *s*	A.B. (*Kansas State u.*) '01. History, Latin	Lawrence, Kan.
Barber, John Raymond, *w*	A.B. (*u. of Chicago*) '99. Pathology (*fel.*)	Portland, Ore.
Barclay, Wade Crawford, *s*	Ph.B. (*u. of Iowa*) '99. Philosophy, History	Lisbon, Ia.
Barker, George Alexander, *a w*	S.B. (*u. of Chicago*) '03. Geography, Geology	Pittsburgh, Pa.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Barnard, Beatrice Anna, *s*	A.B. (*Penn c.*) '00. Latin, History	Oskaloosa, Ia.
Barnard, Edith Ethel, *a w*	S.B. (*u. of Chicago*) '03. Chemistry	Chicago
Barnett, James Duff, *s*	A.B. (*c. of Emporia*) '90. Political Science	Madison, Wis.
Barrow, Harlan Harland, *a w*	S.B. (*u. of Chicago*) '03. Geography, Geology	Armada, Mich.
Bartlett, John Donnington, *a w*	A.B. (*Lombard c.*) '01. Anatomy	Galesburg
Bass, Willard Streeter, *s*	A.B. (*Bowdoin c.*) '96; A.M. (*Harvard u.*) '99. Education	Wilton, Me.
Bates, Ellen Coulter, *a w*	S.B. (*Smith c.*) '99. English	St. Louis, Mo.
Battle, Waddy Wingfield, *s a*	A.B. (*Baylor u.*) '96. Chemistry	Waco, Tex.
Batty, Arthur Joseph, *a w*	A.B. (*Ripon c.*) '03. Anatomy, Neurology	Glen, Wis.
Baumgartner, Milton D, *s a w*	A.B. (*u. of Kansas*) '02; A.M. (*Ibid.*) '03. German	Newton, Kan.
Baumgartner, William Jacob, *s a w*	A.B. (*u. of Kansas*) '00; A.M. (*Ibid.*) '01. Zoölogy (*fel.*)	Lawrence, Kan.
Baxter, Leroy Worth, *a w*	A.B. (*u. of Kansas*) '03. Anatomy, Physiology	Columbus, Kan.
Baylor, Adelaide Steele, *s*	Ph.B. (*u. of Chicago*) '97. Sociology, Political Science	Wabash, Ind.
Bean, Charles Homer, *s*	A.B. (*u. of Nebraska*) '99. Philosophy, Education	Petersburg, O.
Beaton, Lindsay Alexander, *s*	S.B. (*Beloit c.*) '02. Anatomy	Chicago
Beatty, Maria, *s*	A.B. (*u. of Chicago*) '95. English	Chicago
Bedford, Scott Elias William, *s*	A.B. (*Baker u.*) '02; A.M. (*Ibid.*) '03. History	Osage City, Kan.
Beer, James Anderson, *s*	S.B. (*Ohio State u.*) '03. Physiology, Pathology	Columbus, O.
Beery, Harry Reber, *a w*	A.B. (*u. of Chicago*) '03. Anatomy, Physiology	Canal Winchester, O.
Behr, Grace Millikan (Mrs.) *a w*	A.B. (*Oberlin c.*) '95. History, German	Morrison
Beifus, Joseph, *s*	A.B. (*u. of Chicago*) '02. German, English	Chicago
Beifield, Arthur Frederick, *a w*	Ph.B. (*u. of Chicago*) '02. Anatomy, Chemistry	Chicago
Belanger, Katrine Cole, *s*	A.B. (*u. of N. Dakota*) '02. English	Maryville, N. Dak.
Bell, Elexious Thompson, *s*	S.B. (*u. of Missouri*) '01; M.D. (*Ibid.*) '03. Anatomy	Hatch, Mo.
Bellew, Zoe, *s*	A.B. (*u. of Montana*) '99; A.M. (*Ibid.*) '02. History	Missoula, Mont.
Bennett, Julia Cora, *s*	S.B. (*u. of Wisconsin*) '96. Chemistry, Physiology	La Crosse, Wis.
Benson, William, *a w*	A.B. (*Beloit c.*) '97. Greek, Latin	Cedarville
Bergey, Angeline Amenia, *s*	Ph.B. (*Black Hills c.*) '94. English, Greek	Flint, Mich.
Berglund, Abraham, *s a w*	L.B. (*u. of California*) '94. Sociology	San Francisco, Calif.
Berry, Jennie Millhouse, *s a*	L.B. (*Midland c.*) '97. History, Romance	Atchison, Kan.
Berry, Lillian Gay, *s*	A.B. (*Indiana u.*) '99. Latin	Indianapolis, Ind.
Bestor, Arthur Eugene, *a w*	A.B. (*u. of Chicago*) '01. Political Science (*fel.*)	Milwaukee, Wis.
Bevans, Laura, *s a w*	Ph.B. (*u. of Chicago*) '98. Botany	Chicago
Binford, Raymond, *s*	S.B. (*Earlham c.*) '01. Botany, Geology	Wichita, Kan.
Bird, Edward, Randolph, *s*	A.B. (*William & Mary c.*) '01. Philosophy, Sociology	Petersburg, Va.
Bird, Grace Electa, *s*	Ph.B. (*u. of Chicago*) '97. English	Chicago
Birr, William Edward, *s*	Ph.B. (*Northwestern c.*) '01. History, Sociology	Chicago
Blackwelder, Paul, *s*	A.B. (*Harvard u.*) '00. Chemistry, Geology	Morgan Park
Bloom, E. Mantis, *s*	S.B. (*State u. of Iowa*) '94. Mathematics	Chicago
Bloomstein, Lizzie Lee, *s*	A.M. (*u. of Nashville*) '95. History	Nashville, Tenn.
Blount. Mary, *a w*	S.B. (*u. of Michigan*) '95. Botany, Zoölogy	Byron
Bodman, Edward Whitney, *a*	—— (*Williams c.*) Anatomy, Chemistry	Chicago
Bondurant, Bernard Camillus, *s a w*	A.B. (*Hampden-Sidney c.*) '91; A.M. Hon. (*Bethany c.*) '94; A.M. (*West Virginia u.*) '00. Latin (*fel.*), Greek	Bethany, W. Va.
Boomhour, Joshua Gregory, *s*	A.B. (*Colgate u.*) '97. Astronomy, Physics, Geology	Delhi, N. Y.
Borgerhoff, Jean Joseph Leopold, *s*	A.M. (*Vanderbilt u.*) '01. Romance, German	Chicago
Boughton, Thomas Harris, *s a w*	S.B. (*u. of Chicago*) '03. Neurology	Chicago
Bowman, Nina Clare, *s*	A.B. (*Kansas State u.*) '93. English, Latin	Newton, Kan.
Boynton, Percy Holmes, *s a w*	A.B. (*Amherst c.*) '97; A.M. (*Harvard u.*) '98. English, German	Chicago

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Bradley, Frederick Oliver, *a*	A.B. (*Dartmouth c.*) '02. Political Economy	Evanston
Bramhall, Frederick Denison, *a w*	Ph.B. (*u. of Chicago*) '02. Political Science (*fel.*), History	Chicago
Branson, Edwin Bayer, *a w*	A.B. (*u. of Kansas*) '03; A.M. (*Ibid.*) '03. Palaeontology (*fel.*), Geology	Belleville, Kan.
Breck, Emma Josephine, *a*	Ph.B. (*u. of Chicago*) '03. Philosophy	Oakland, Calif.
Bretz, Julian Pleasant, *a w*	A.B. (*William Jewell c.*) '99. History	Kansas City, Mo.
Breyfogle, Herbert Arthur, *a w*	A.B. (*Ohio Wesleyan u.*) '02. Anatomy	Delaware, O.
Briscoe, Walter Matthew, *s*	A.B. (*Ouachita c.*) '00. German, Romance	Arkadelphia, Ark.
Brister, John Willard, *s*	A.B. (*u. of Nashville*) '92; A.M. (*Ibid.*) '93. Political Economy, History	Petersburg, Va.
Brook, Charles Frederick Tucker, *a w*	A.B. (*u. of West Virginia*) '01; A.M. (*Ibid.*) '02. German (*fel.*), Romance	Morgantown, W. Va.
Brooke, Harrie Edna, *a w*	Ph.B. (*Oberlin c.*) '94. Latin	Philadelphia, Pa.
Brown, Alonzo Nortzel, *s*	A.B. (*Atlanta u.*) '98; A.B. (*u. of Chicago*) '02. Chemistry, Physics	Atlanta, Ga.
Brown, Benjamin Henton, *w*	A.B. (*Washington & Lee u.*) '93. Anatomy, Physiology	Waverly, Mo.
Brown, George Samuel, *s*	A.B. (*Antioch c.*) '88; A.M. (*Ibid.*) '95. Latin	Yellow Springs, O.
Brown, Orville Harry, *s a w*	A.B. (*Kansas State u.*) '01. Physiology (*fel.*)	Sabetha, Kan.
Brown, Robert Edgar, *s*	A.B. (*Wiley u.*) '99. Chemistry, Zoölogy	Marshall, Tex.
Brownlee, Roy Hutchison, *s w*	A.B. (*Monmouth c.*) '98. Chemistry	Norwood
Brunson, Margaret Lansdall, *s*	A.M. (*Furman u.*) '96. Latin, Greek	Anderson, S. C.
Buchanan, Elizabeth Earnist, *s*	A.B. (*u. of Chicago*) '00. English	Chicago
Buck, Blanche Julia, *s a w*	A.B. (*Ripon c.*) '98. English, History, German	Omro, Wis.
Buedel, Mabel Jeanette, *s*	A.B. (*Parsons c.*) '02. German	Fairfield, Ia.
Burns, Rachel Caroline Eaton (Mrs.), *s*	S.B. (*Drury c.*) '95. English, History	Claremore, Ind. T.
Burns, Rush Leslie, *a w*	S.B. (*u. of Wisconsin*) '98. Anatomy, Physiology	Oakfield, Wis.
Burton, Emmette Young, *s*	A.B. (*u. of Virginia*) '02. Mathematics	Parnassus, Va.
Bussey, William Henry, *a w*	A.B. (*Northwestern u.*) '00; A.B. (*Harvard u.*) '01; A.M. (*Ibid.*) '02. Mathematics, (*fel.*), Astronomy	Chicago
Bynum, John Baxter, *a w*	A.B. (*Emory c.*) '01. Zoölogy, Physiology	Harlan, Ia.
Cable, Emmett James; *a w*	S.B. (*Cornell c.*) '00. Geology, Chemistry	Hubbard, Ia.
Caldwell, Joseph Stuart, *s a w*	A.B. (*Maryville c.*) '02. Botany, Physiology	Jefferson City, Tenn.
Calkins, R. D.	S.B. (*u. of Chicago*) '03. Geology	Mt. Pleasant, Mich.
Calley, Walter England, *a*	S.B. (*u. of Chicago*) '03. Chemistry	Chicago
Calvin, Florence, *s*	A.B. (*Allegheny c.*) '94. German, English	Meadville, Pa.
Calvin, Katharine, *s*	A.B. (*Allegheny c.*) '97. English, Romance	Meadville, Pa.
Cameron, Effie Estelle, *s*	A.B. (*Drake u.*) '02. English	Keswick, Ia.
Camp, Katharine Barker, *a*	S.B. (*u. of Michigan*) '94. Education	Cleveland, O.
Capps, Stephen Reid, *s*	A.B. (*u. of Chicago*) '03. Geology	Jacksonville
Cardiff, Ira Detrich, *s a w*	S.B. (*Knox c.*) '97. Chemistry, Botany	Galva
Carnahan, David Hobart, *s*	A.B. (*u. of Illinois*) '96; A.M. (*Ibid.*) '98. Romance	Champaign
Carr, Harvey, *a w*	S.B. (*u. of Colorado*) '01; S.M. (*Ibid.*) '02. Education, Philosophy (*fel.*)	Ambia, Ind.
Carr, Wilbert Lester,	A.B. (*Drake u.*) '98; A.M. (*Ibid.*)'99. Latin (*fel.*), Greek	Des Moines, Ia.
Carson, Waid Edwin, *s*	A.B. (*Ohio Wesleyan u.*) '00. Physics, Botany	Ripley, W. Va.
Casis, Lilis, Mary, *s*	L.B. (*u. of Texas*) '95; A.M. (*Ibid.*) '96. Romance	Austin, Tex.
Castleman, Justus Collins, *s*	A.B. (*Indiana u.*) '00. English, History	Chesterton, Ind.
Castro, Matilde, *a w*	A.B. (*u. of Chicago*) '00. Philosophy (*fel.*)	Chicago
Cato, Austin Greene, *s*	A.B. (*Oakland City c.*) '01. Latin	Oakland City, Ind.
Chalfant, May Eaton, *s*	A.B. (*Monmouth c.*) '00. Latin, German	Anamosa, Ia.
Chamberlin, Rollin Thomas, *s a w*	S.B. (*u. of Chicago*) '03. Geology	Chicago

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Chamberlin, Willis Arden, *s*	A.B. (*Denison u.*) '90; A.B. (*Harvard u.*) '91; A.M. (*Denison u.*) '94. German	Granville, O.
Chandler, Elbert Edwin, *a w*	A.B. (*William Jewell c.*) '91; LL.D. (*u. of Michigan*) '93. Physics, Chemistry	Chicago
Chandler, Robert Allen, *s*	A.B. (*Indiana u.*) '02. Mathematics	Marshfield, Ind.
Chapple, Benjamin Phillips, *s*	L.B. (*u. of Minnesota*) '91. Political Science	Faribault, Minn.
Charlton, Orlando Clarke, *s*	S.B. (*Hanover c.*) '72; A.M. (*Ibid.*) '85. Botany, Zoölogy	Waco, Tex.
Chase, Henrietta Helen, *s a*	Ph.B. (*u. of Chicago*) '01. Romance	Lynden, Vt.
Cherington, Frank Barnes, *s w*	A.B. (*Ohio Wesleyan u.*) '99; A.B. (*Harvard u.*) '00; A.M. (*Ibid.*) '01. English	Athens, O.
Chrislip, Abram Elza, *s*	A.B. (*u. of Nashville*) '01. Philosophy, German	Milan, Tenn.
Chrysler, Mintin Asbury, *s a w*	A.B. (*u. of Toronto*) '94. Botany (*fel.*)	Brantford, Ont.
Clancy, Mary Adelaide, *s*	A.B. (*Albion c.*) '00. English, Political Science	Albion, Mich.
Clark, Clifford Pease, *s a w*	A.B. (*Connecticut Wesleyan u.*) '95. Latin, German	Wichita, Kan.
Clark, Juliana, *a w*	A.B. (*Allegheny c.*) '99. English	Cleveland, O.
Clark, Lillian, *a*	Ph.B. (*u. of Chicago*) '02. English, Philosophy	Berlin, Wis.
Clark, Olynthus Burroes, *s*	S.B. (*Eureka c.* '96; A.B. (*Ibid.*) '00; A.M. (*Ibid.*) '00. Political Science	Eureka
Clark, Frederick William, *s a w*	A.B. (*Manitoba u.*) '92. Latin, Greek	Winnipeg, Can.
Clark, W. Blair, *s*	S.B. (*Denison u.*) '97; S.M. (*Ibid.*) '00. Chemistry	Granville, O.
Claus, Eva Wallace, *s a w*	Ph.B. (*u. of Chicago*) '02. English (*fel.*), German	Chicago
Cleveland, Catherine Caroline, *a w*	L.B. (*u. of Wisconsin*) '94. History, Political Science	Oshkosh, Wis.
Clevenger, Charles H., *s*	S.B. (*Ohio State u.*) '02. Physics	Piqua, O.
Clough, Flora Colby, *s*	L.B. (*Olivet c.*) '96. English	Plainfield, N. J.
Cochran, Eleanor Frye, *a*	A.B. (*Converse c.*) '01. English, History.	Anderson, S. C.
Coffeen, Elmer Laupher, *s*	L.B. (*Carleton c.*) '93. Sociology, Philosophy	Waulon, Ia.
Coffin, J. Herschel, *a w*	S.B. (*Penn c.*) '02. Philosophy	Oskaloosa, Ia.
Coggshall, Wilbur Adelman, *a w*	S.B. (*Albion c.*) '95. Astronomy (*fel.*)	Cold Water, Mich.
Coghill, William Hawes, *w*	Engineer (*Colorado State School of Mines*) '03. Geology	Monmouth
Cole, Anna Lewis, *s a w*	A.B. (*Woman's c. of Baltimore*) '92; A.M. (*Ibid.*) '94. Romance (*fel.*)	Baltimore, Md.
Collett, Samuel Williamson, *s*	S.B. (*Moore's Hill c.*) '86; S.M. (*Ibid.*) '94. Botany	Dayton, O.
Colwell, Howard Griffith, *s*	A.B. (*William Jewell c.*) '97. German, Latin	St. Louis, Mo.
Conrath, Mary Olive, *s*	Ph.B. (*u. of Chicago*) '03. Greek, Latin	Lima, O.
Cook, Grace Louise, *a w*	A.B. (*Wellesley c.*) '99. English	Wellesley, Mass.
Cooke, Edmund Curley, *s*	A.B. (*Harvard u.*) '94. Latin, Sanskrit	Kearney, Neb.
Cooke, Nellie, *s*	Ph.B. (*DePauw u.*) '92. English	Greencastle, Ind.
Core, Ralph Waldo, *s*	A.B. (*Simpson c.*) '01. History	Indianola, Ia.
Cornwall, Delos Edward, *a w*	S.B. (*u. of Idaho*) '03. Anatomy, Physiology	Moscow, Idaho
Cowley, Ellzabeth Buchanan, *s*	A.B. (*Vassar c.*) '01; A.M. (*Ibid.*) '02. Mathematics	Poughkeepsie, N. Y.
Cox, Jennie Lynn, *s*	L.B. (*Fairmount c.*) '03. Latin, German	Wichita, Kan.
Crabbe, John Edgerton, *s*	A.B. (*u. of Wooster*) '99. Physics	Wooster, O.
Craig, Wallace, *s a w*	S.B. (*u. of Illinois*) '98. Zoölogy	Chicago
Crane, Arthur Wesley, *a w*	A.B. (*Des Moines c.*) '03. Philosophy, Sociology	Bonton, Ia.
Crans, Anna Maria, *s*	S.B. (*Cornell u.*) '99. Mathematics	Dairyland, N. Y.
Crawley, George FitzHugh, *a w*	A.B. (*Charleston c.*) '02. Mathematics	Columbia, S. C.
Crosus, Olive Viola, *s*	A.B. (*u. of Washington*) '02. English, History	Seattle, Wash.
Crowell, Winifred Gardner, *s a w*	S.B. (*u. of Chicago*) '01. English	Barrington, N. S.
Cruikshank, Roswell Dwight, *s*	Ph.B. (*Iowa c.*) '01. Anatomy, Physiology	Humboldt, Ia.
Crumpton, Claudia Evangeline, *a w*	A.M. (*Georgetown, Ky., c.*) '01. Latin, German	East Lake, Ala.
Culver, John Martin, *s*	A.B. (*Indiana u.*) '95; A.M. (*Cornell u.*) '00. History, Sociology	Evansville, Ind.
Cummings, Elbert A., *a w*	A.B. (*Colorado c.*) '99. Latin, History	Colorado Springs, Colo.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Curtis, Alice Mary, *s*	A.B. (*Indiana u.*) '97. English, History	Chicago
Curtis, Arthur Hale, *s*	S.B. (*u. of Wisconsin*) '02. Anatomy, Physiology	Madison, Wis.
Curtiss, F. Homer *s*	S.B. (*Purdue u.*) '00. Anatomy	Austin, Tex.
Dahlen, Emma Marie, *s*	S.B. (*Northwestern u.*) '01. English	Whitewater, Wis.
Darby, Arleigh Lee, *s*	A.B. (*Waynesburg c.*) '99. Latin	Waynesburg, Pa.
Davage, Matthew Simpson, *s*	A.B. (*New Orleans u.*) '00. Mathematics	New Orleans, La.
Davenport, Frances Gardiner, *a w*	A.B. (*Radcliffe c.*) '94; A.M. (*Ibid.*) '96. History (*fel.*), Political Economy	Chicago
David, Henri Charles Eduard, *s*	A.B. (*u. of Chicago*) '02. Romance	Chicago
Davidson, Margaret, *s a w*	Ph.B. (*u. of Chicago*) '03. English	Chicago
Davies, Beatrice Irene, *s*	Ph.B. (*u. of Chicago*) '02. English	Chicago
Davis, Henry Campbell, *s*	A.B. (*S. Carolina c.*) '98. German, English	Columbia, S. C.
Davis, John Nicholas, *s w*	A.B. (*Maryville c.*) '97.	Sturgis, N. Dak.
Davis, Katherine, *s*	L.B. (*Knox c.*) '92. Latin, English	Galesburg
Davis, William Reese, *s a*	A.B. (*Ripon c.*) '01. English	Randolph, Minn.
Dawson William Marcus, *s*	A.B. (*Antioch c.*) '99. Greek, Latin	Yellow Springs, O.
Dean, George Reinald, *s*	S.B. (*u. of Missouri*) '91. Mathematics	Rolla, Mo.
Dean, Nellie Leota, *s*	A.B. (*u. of Nebraska*) '97; A.M. (*Ibid.*) '01. Latin, Sanskrit	Lincoln, Neb.
DeCew, Louise Carpenter, *s*	S.B. (*u. of Chicago*) '98. Geology	Chicago
Decherd, Mary Elizabeth, *s*	L.B. (*u. of Texas*) '92; A.M. (*Ibid.*) '97. Mathematics	Austin, Tex.
Deffler, Cornelia, *s*	Ph.B. (*Hillside c.*) '90. History	Chicago
DeFrees, Mary Lucy, *a*	A.B. (*Vassar c.*) '99. English	Chicago
Derr, Homer, *a w*	S.B. (*Kansas State Agricultural c.*) '00. Physics, Mathematics	Chicago
De Wolf, Frank Walbridge, *s a w*	S.B. (*u. of Chicago*) '03. Geology, Geography	Chicago
Dickson, George Alexander, *s*	A.B. (*Washington & Jefferson c.*) '94; A.M. (*Ibid.*) '97. History, Political Science	Birmingham, Pa.
Dillenback, Evva, *s*	S.B. (*Mt. Holyoke c.*) '91. English	Chicago
Dirks, Martin Hermann, *a w*	S.B. (*Midland c., Kansas*), '01. Anatomy, Physiology	South Auburn, Neb.
Dixon, Daisy, *s*	A.B. (*Kansas State u.*) '99; A.M. (*Ibid.*) '00. Latin	Haskell Inst.
Doak, Eleanor Catherine, *s*	A.B. (*Coates c.*) '92; Ph.B. (*u. of Chicago*) '01. Mathematics, Physics	Terre Haute, Ind.
Dodd, Walter Farleigh, *a w*	A.B. (*Florida State c.*) '98; S.B. (*John B. Stetson u.*) '01. Political Science (*fel.*), Political Economy	Lake City, Fla.
Dolfinger, Emma, *s*	Ph.B. (*u. of Chicago*) '03. Geology	Louisville, Ky.
Donaldson, Olive, *s*	A.B. (*u. of Chicago*) '99. Greek, German	Chicago
Donovan, Frances Marie, *s*	Ph.B. (*u. of Chicago*) '01. German	Chicago
Doniat, Josephine Catherine, *s*	A.B. (*u. of Chicago*) '00. German	Chicago
Douglas, Jeane Emily, *w*	A.B. (*Toronto u.*) '96. English, Latin	Chatham, Can.
Dowd, Jerome, *s w*	A.B. (*Trinity c.*) '99; A.M. (*Ibid.*) '99. Sociology (*fel.*)	Charlotte, N. C.
Drayer, Howard C., *s*	A.B. (*Hedding c.*) '96. Botany	Manteno
Dryden, Nellie, *s*	A.B. (*u. of Kansas*) '98. Latin, German, English	Wichita, Kan.
Dubach, Otto Frederick, *s*	Ph.B. (*Ottawa u.*) '98. Political Science, History	Sabetha, Kan.
Dudley, Frank Church, *s*	A.B. (*Amherst c.*) '00. Anatomy	Marlboro, Mass.
Duke, Victor Leroy, *s*	A.B. (*Shurtleff c.*) '97. Mathematics	Upper Alton
Dunbar, Helen, *s*	A.B. (*Monmouth c.*) '02. History, Latin	Monmouth
Duncan, Marcus Homer, *w*	A.B. (*Baylor u.*) '99; A.B. (*Yale u.*) '02. Political Economy	Wylie, Tex.
Dysart, Lulu May, *a w*	A.B. (*Ripon c.*) '99. English	Wauwatosa, Wis.
Earle, James Richard, *a w*	A.B. (*Cornell u.*) '02. Physiology, Anatomy	Lakemont, N. Y.
Early, Herbert Weaver, *a*	A.B. (*Wake Forest c.*) '95; L.B. (*Ibid.*) '98. History, Political Science	Aulander, N. C.
Elam, Harvey William, *s a w*	Ph.B. (*Antioch c.*) '01. Sociology	Xenia, O.
Elliott, Miriam Belle, *s*	A.B. (*u. of Nashville*) '02. Philosophy, English	Nashville, Tenn.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Emmons, William Harvey, *s a w*	A.B. (*Central c., Mo.*) '97. Geology	Mexico, Mo.
Emrich, Cora Maria, *s*	A.B. (*Butler c.*) '00; Ph.B. (*u. of Chicago*) '00. Romance, Philosophy	Indianapolis, Ind.
Engels, Augusta, *a w*	S.B. (*u. of Chicago*) '03. Astronomy, Physics	Chicago
Eppes, Martin McCoy, *s*	A.B. (*Howard c.*) '98; A.M. (*Ibid.*) '99. Education	Clarksville, Ala.
Erwin, Mary Belle, *s*	A.B. (*Cedarville c.*) '03. Latin, English	Cedarville, O.
Evans, Alvin Eleazar, *a w*	A.B. (*Cotner c.*) '96; A.M. (*u. of Nebraska*) '98. Greek, Latin	Bethany, Neb.
Evans, Carolyn Irene, *s*	L.B. (*Carlton c.*) '00. History, English	Tacoma, Wash.
Evans, Evan Stark, *s a w*	Ph.B. (*Iowa c.*) '02. Anatomy	Hampton, Ia.
Evans, William Lloyd, *a w*	S.B. (*Ohio State u.*) '92; S.M. (*Ibid.*) '96. Chemistry (*fel.*)	Columbus, O.
Evens, Alfred C., *s*	Ph.B. (*DePauw u.*) '02. Sociology, History	Greencastle, Ind.
Everly, Lu Lester, *s*	A.B. (*Illinois Wesleyan u.*) '89; A.M. (*Ibid.*) '92. Geology, Chemistry	Joliet
Ewing, Fred E., *w*	S.B. (*Knox c.*) '03. Anatomy, Physiology	Arcola
Farley, Albert Allison, *a w*	Ph.B. (*Beloit c.*) '95. Philosophy, Education	Watertown, S. Dak.
Faulkner, Elizabeth, *a w*	A.B. (*Old u. of Chicago*) '85. Greek	Chicago
Faurot, Albert Alfred, *a*	L.B. (*u. of Nebraska*) '91; A.M. (*Ibid.*) '95. German, Romance	South Whitby, Ind.
Fauss, La Verne, *s*	Ph.B. (*u. of South Dakota*) '89. History, English	Chicago
Feuling, Alice Dynes (Mrs.)	S.B. (*u. of Chicago*) '00. Sociology	Chicago
Fisher, Edith, *a w*	A.B. (*Smith c.*) '03. Botany	Elmira, N. Y.
Fitch, Kenneth Chancey, *s*	A.B. (*u. of Michigan*) '95. Physics, Chemistry	Joliet
Fitzpatrick, Mary Ransom, *s*	A.B. (*Cornell u.*) '93. Greek, Latin	Brooklyn, N. Y.
Fleming, Herbert Easton, *s a w*	Ph.B. (*u. of Chicago*) '02. Political Economy, Sociology	Fayette, Ia.
Flersheim, Elsie, *a w*	A.B. (*u. of Chicago*) '02. Greek	Chicago
Flickinger, Roy Castor, *s a w*	A.B. (*Northwestern u.*) '97; A.M. (*Ibid.*) '01. Greek (*fel.*), Latin	Chicago
Flint, Helen Currier, *s*	A.B. (*Mt. Holyoke c.*) '91. Greek	Concord, N. H.
Flower, Otis Preston, *s*	A.B. (*Miami u.*) '03. History, English	Oxford, O.
Flynn, Oscar Rogers, *w*	S.B. (*Ohio State u.*) '96. Chemistry	Chicago
Forsgard, Ennie Matilda, *s*	L.B. (*u. of Texas*) '96. History	Waco, Tex.
Fortney, Gerhard Olans, *s*	S.B. (*u. of Chicago*) '02. Anatomy, Physiology	Viroqua, Wis.
Foster, Eunice, *w*	A.B. (*Monmouth c.*) '03. German, English	Monmouth
Foster, John Andrew, *s*	A.B. (*Indiana State u.*) '01. History	Kendalville, Ind.
Fox, John Sharpless, *a w*	A.B. (*Haverford c.*) '02. History, Political Science	West Chester, Pa.
Frazer, Herbert Alexander, *s*	S.B. (*Northwestern u.*) '02. Geology, Botany	Joliet
Freeman, Ella Maria, *s*	A.B. (*Vassar c.*) '84. Chemistry	Princeton, Mass.
Freeman, Grace, *s*	A.B. (*u. of Chicago*) '96. History	Springfield
Funk, Gertrude E., *s*	L.B. (*u. of Minnesota*) '99. English, German	Minneapolis, Minn.
Furry, William Davis, *s*	A.B. (*Notre Dame u.*) '00. Philosophy	Ashland, O.
Gage, Harry Morehouse, *s*	A.B. (*u. of Wooster*) '00. Philosophy	Huron, S. D.
Galt, Caroline, Morris, *s*	A.B. (*Bryn Mawr c.*) '97. Latin, Greek	Marion, Va.
Gardner, Emelyn Elizabeth, *s*	A.B. (*u. of Chicago*) '02. Political Economy, Sociology	West Oneonta, N. Y.
Gardner, Eva May, *s*	S.B. (*Denison u.*) '94. English, History	Mt. Gilead, O.
Gardner, Wright Austin, *s*	S.B. (*Albion c.*) '02. Botany, Zoölogy	Hartford, Mich.
Garratt, Elwood A., *s*	A.B. (*Manitoba u.*) '91. Geology, Physics	Winnipeg, Can.
Geckler, Theodore, *s*	A.B. (*u. of Indiana*) '94. Mathematics	Spencer, Ind.
Gillett, Harry Orrin, *s*	S.B. (*u. of Chicago*) '01. Geology	Chicago
Godbey, Allen Howard, *s a w*	A.M. (*Morrison c., Mo.*) '83. Semitic (*fel.*)	Fayette, Mo.
Goettsch, Charles, *a w*	A.B. (*u. of Chicago*) '01. German (*fel.*)	Davenport, Ia.
Goettsch, Emil, *a w*	S.B. (*u. of Chicago*) '03. Chemistry, Physics	Davenport, Ia.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Goettsch, Henry Max, *a w*	S.B. (*State u. of Iowa*) '99; S.M. (*Ibid*) '00. Chemistry	Iowa City, Ia.
Goodhue, Horace, *s*	A.B. (*Dartmouth c.*) '67; A.M. (*Ibid.*) '70. Greek	Northfield, Minn.
Goodsmith, Jessie Bell, *s*	L.B. (*Northwestern u.*) '00. History, English	Edgewater
Gordis, Warren Stone, *a w*	A.B. (*u. of Rochester*) '88; A.M. (*Ibid.*) '91. Greek, Latin	De Land, Fla.
Gould, James Edward, *s*	Ph.B. (*u. of Washington*) '96; Pd.B. (*Ibid.*). Chemistry, Physics	Seattle, Wash.
Gowan, Charles Homer, *a w*	L.B. (*Pomona c.*) '02. Anatomy, Physiology	Los Angeles, Calif.
Grabo, Carl Henry, *a w*	Ph.B. (*u. of Chicago*) '03. English	Chicago
Gramm, Carl Theodor, *w*	A.B. (*Riverside c., Iowa*) '79; M.D. (*c. of Physicians and Surgeons*) '93. Anatomy	Chicago
Gray, Charles Cyrus, *s*	A.B. (*Cornell c.*) '00. Astronomy, Chemistry	Boone, Ia.
Gray, Charles Henry, *a w*	L.B. (*u. of Michigan*) '95; L.M. (*Ibid.*) '96. English (*fel.*), German	Chicago
Greenfield, LeRoy, Bethnel, *s*	A.B. (*u. of Oklahoma*) '03. English, Philosophy	Watonga, Okla.
Greenlaw, Edwin Almiron, *a w*	A.B. (*Northwestern u.*) '97; A.M. (*Ibid.*) '98. English, German, Romance	Evanston
Griffin, Frank Loxley, *a w*	A.B. (*u. of Chicago*)) '03. Physics, Mathematics	Topeka, Kan.
Grosh, Lulu, *s*	A.B. (*Kansas State u.*) '00. Latin, Greek	Haysville, Kan.
Gunnerson, William Cyrus, *s a w*	A.B. (*Indiana u.*) '98; A.M. (*Ibid.*) '99. Sanskrit (*fel.*)	Chicago
Gunning, Marcella, *a w*	L.B. (*u. of California*) '01. English	Chicago
Gurney, Laurence Emery, *a w*	A.B. (*Colby c.*) '99. Physics, Mathematics	Holliston, Mass.
Haas, William Hermann, *s*	A.B. (*u. of Chicago*) '02. Philosophy, Sociology	Bellevue, O.
Hadley, Theodosia Hamilton, *s a w*	A.B. (*Vassar c.*) '02. Physiology, Chemistry	Indianapolis, Ind.
Hadley, William Aaron, *s*	A.B. (*Earlham c.*) '81; A.M. (*u. of Minnesota*) '89. Latin, Greek, German	Peoria
Hadsel, Fred Latimer, *s*	Ph.B. (*Upper Iowa u.*) '02. Latin, Greek	Elgin, Ia.
Haertel, Martin Henry, *s a*	S.B. (*St. Charles c.*) '95; Ph.B. (*u. of Chicago*) '01. German, Romance	St. Charles, Mo.
Hale, David Jones, *s*	S.B. (*Agricultural c., Michigan*) '98. Pathology	Benton Harbor, Mich.
Hall, Robert Anderson, *s*	A.B. (*u. of Nashville*) '94. Chemistry, Physics	Palestine, Tex.
Hamburger, Walter Wile, *a w*	S.B. (*u. of Chicago*) '03. Physiology, Anatomy	Chicago
Hamilton, Frances Marion, *a w*	A.B. (*u. of Indiana*) '97; A.M.(*Ibid.*)' 01. Philosophy, Education	Markle, Ind.
Hamilton, Ira Calvert, *s a w*	A.B. (*Indiana u.*) '00. Political Science (*fel.*)	Zanesville, Ind.
Hammond, Lucie, *s*	Ph.B. (*u. of Chicago*) '99. History, English	Chicago
Hanley, Erastus Talbot, *s*	S.B. (*Franklin c.*) '02. Anatomy	Franklin, Ind.
Harback, Maude Amelia, *s*	A.B. (*Penn c.*) '00; A.M. (*Ibid.*) '01. Latin, German	Oskaloosa, Ia.
Harding, Adaline Wight, *s*	L.B. (*Fairmount c.*) '01. English	Wichita, Kan.
Hargreaves, Richard Theodore, *s*	A.B. (*u. of Kansas*) '02. History	Topeka, Kan.
†Harper, Samuel Northrup, *s a w*	A.B. (*u. of Chicago*) '02. Political Science, History	Chicago
Harrington, Abba Durant, *a w*	A.B. (*Oberlin c.*) '99. Latin, Greek	Sycamore
Harris, Helen, *a w*	L.B. (*u. of California*) '98. English	Hammond, Ind.
Harris, William Sherman, *s*	A.B. (*Wittenberg c.*) '99. Chemistry, Physics	Hillsboro
Harrod, Samuel Glenn, *s*	A.B. (*Eureka c.*) '03. Latin, English	St. Augustine
Hart, Walter Wilson, *s*	A.B. (*u. of Chicago*) '01. Mathematics	Chicago
Harvey, LeRoy Harris, *s*	S.B. (*u. of Maine*) '01. Botany, Geology	Orono, Me.
Harwood, Charles B., *s*	A.B. (*Oberlin c.*) '02. Anatomy, Physiology	Wattsburg, Pa.
Hasselbring, Heinrich, *s a w*	S.B. (*Cornell u.*) '99. Chemistry	Flint, Mich.
Hatton, Augustus Raymond, *a w*	Ph.B. (*Franklin c.*) '98. Political Science	Vevay, Ind.
Hatton, Edward Howard, *s*	L.B. (*u. of Wisconsin*) '99. Anatomy	Peru
Hayden, Evelyn Shewell, *s a w*	S.B. (*u. of Chicago*) '02. Physics (*fel.*)	Chicago
Hearon, Cleo, *a*	Ph.B. (*u. of Chicago*) '03. Political Economy, History	Columbus, Miss.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Hebb, Thomas Carlyle, *s a w*	A.B. (*Dalhousie u.*) '00; A.M. (*Ibid.*) '01; S.B. (*Ibid.*) '02. Physics, Mathematics	Chicago
Hegner, Robert Wilhelm, *a w*	S.B. (*u. of Chicago*) '03. Zoölogy	Decorah, Ia.
Heinen, John Henry, *s*	S.B. (*u. of Chicago*) '03. Physiology, Anatomy	Ambia, Ind.
Helmholz, Henry Fred, *s*	S.B. (*u. of Wisconsin*) '02. Anatomy, Neurology	Milwaukee, Wis.
Henderson, Hermann Charles, *s*	A.B. (*u. of New Brunswick*) '89; A.B. (*u. of Chicago*) '95. Education, Philosophy	Andover, N. B.
Henderson, Martha Bettina, *s*	L.B. (*u. of Wisconsin*) '96. English	Cambridge, Wis.
Henry, Frederic Squire, *s*	A.B. (*u. of Nebraska*) '94; A.M. (*Ibid.*) '97. Romance, German	Clay Center, Neb.
Henry, Robert Llewellyn, *s a w*	Ph.B. (*u. of Chicago*) '02. Political Science	Chicago
Herbert, John Curtis, *s*	S.B. (*Miss. Agr. & Mech. c.*) '97; S.M. (*Ibid.*) '92. History	Agricultural College, Miss.
Hester, Frank Orville, *s*	A.B. (*De Pauw u.*) '89. Physics	Indianapolis, Ind.
Hewetson, William Templeton, *s*	L.B. (*Columbia u.*) '91. English	St. Clairsville, O.
Hiatt, James Smith, *s*	L.B. (*Earlham c.*) '99; A.B. (*Haverford c.*) '00. English	Richmond, Ind.
Hibbard, Rufus Percival, *s*	A.B. (*Williams c.*) '99. Botany, Physiology	Gloucester, Mass.
Hill, Isaac Everett, *s*	A.B. (*u. of Colorado*) '00. Physiology, Pathology	Grand Junction, Col.
Hill, James Charlesworth, *s*	A.B. (*Monmouth c.*) '02. Anatomy, Physiology	Newton, Ia.
Hillman, Ada Belle, *s a*	L.B. (*u. of Minnesota*) '95; L.M. (*Ibid.*) '96. Biblical Greek	Minneapolis, Minn.
Hills, Thomas McDougall, *a w*	Ph.B. (*Wooster u.*) '02. Geology, Botany	Wooster, O.
Hilpert, Willis Stose, *a w*	S.B. (*u. of Chicago*) '03. Chemistry, Physics	Chicago
Hilsinger, Margaret Lorinda, *a*	A.B. (*State u. of Iowa*) '98. English, Philosophy	Sabula, Ia.
Hobson, Elsie Garland, *a*	A.B. (*Boston u.*) '95. Latin	Chicago
Hoff, Robert Lee, *s*	A.B. (*u. of Kansas*) '94. Mathematics	Humboldt, Neb.
Hole, Allen David, *s*	S.B. (*Earlham c.*) '97; A.M. (*Ibid.*) '01. Geology	Richmond, Ind.
Holley, Allen John, *s*	A.B. (*Williams c.*) '94. Latin	Chicago
Hollis, Henry Scott, *s*	A.B. (*u. of Chicago*) '99. Political Science, History	Morgan Park
Holmes, Harriet Fay, *a w*	A.B. (*Vassar c.*) '95. Chemistry	Chicago
Holmsen, Holm, *w*	(*u. of Kristiania*) '93. Anatomy, Chemistry	Chicago
Holt, Orithia Josephine, *s*	L.B. (*u. of Wisconsin*) '90. Romance	Upper Alton
Holt, Fred White, *a*	A.B. (*u. of Arkansas*) '03. Mathematics	Bellefonte, Ark.
Hopkins, Helen, *s*	A.B. (*Mt. Holyoke c.*) '02. Latin, History	Evanston
Horovitz, Janco Samuel, *a w*	L.B. (*u. of California*) '02; L.M. (*Ibid.*) '03. Anatomy (*fel.*)	Berkeley, Calif.
Horswell, Gail, *s*	A.B. (*Northwestern u.*) '96. German, English	Estherville, Ia.
Howe, Clifton Durant, *s a w*	A.B. (*u. of Vermont*) '98; S.M. (*Ibid.*) '01. Botany, Geology	Newfane, Vt.
Howell, William Bletcher Lander, *a w*	A.B. (*u. of Toronto*) '94. Latin, Greek	Beansville, Ont.
Hosic, Nellie Augusta Lovering (Mrs.), *s a*	S.B. (*u. of Chicago*) '02. English	Chicago
Hoxie, Robert Franklin, *s*	Ph.B. (*u. of Chicago*) '93. Political Science, Political Economy	New York, N. Y.
Hoy, Nathaniel Elisha, *a w*	A.B. (*Macalester c.*) '01. English	Winthrop, S. Dak.
Hubbard, Marion Elizabeth, *a w*	S.B. (*u. of Chicago*) '94. Zoölogy	Wellesley, Mass.
Hubbard, Mary, *s*	A.B. (*Western c., Oxford*) '96. History, Latin	Kenilworth, O.
Hubert, Anna, *s*	A.B. (*u. of Washington*) '01, German, Chemistry	Seattle, Wash.
Hudnutt, Carrie E., *s*	A.B. (*u. of Michigan*) '83. Latin, History	Ashville, N. Y.
Hughes, Louise Elizabeth, *s*	Ph.B. (*State u. of Iowa*) '78; A.M. (*Ibid.*) '81. Latin	Iowa City, Ia.
Hunter, Joseph Symmes, *s*	A.B. (*Ohio State u.*) '01. Latin	Seven Mile, O.
Huston, Charles Andrew, *a w*	A.B. (*u. of Chicago*) '02. History, Political Science	Manitou, Can.
Iguchi, Sei, *a w*	A.B. (*Waseda u.*) '02; (*State u. of Washington*). Sociology, Political Science	Okayama, Japan

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Ingals, Flora Anita, *a w*	A.B. (*Baldwin u.*) '99. Greek, Latin	La Grange, O.
Irving, Peyton, Jr., *s*	A.B. (*Austin c.*) '96; A.B. (*u. of Texas*) '00. Philosophy	Cleburne, Tex.
Isely, Frederick B., *s*	S.B. (*Fairmount c.*) '99. Zoölogy, Botany	Wichita, Kan.
Jackson, Margaret Murray, *s*	S.B. (*Tarkio c.*) '99. English	Chicago
James, William Alonzo, *s*	S.B. (*u. of Texas*) '94; A.M. (*Ibid.*) '95. Chemistry	Galveston, Tex.
Jensen, Gerhard H., *a w*	S.B. (*Cornell u.*) '99. Botany, Zoölogy	Denmark, Wis.
Jernegan, Marcus Wilson, *a*	A.B. (*Brown u.*) '96; A.M. (*Ibid.*) '98. History (*fel.*)	Edgartown, Mass.
Johnson, Elijah Newton, *s*	A.B. (*Drake u.*) '93; A.M. (*Ibid.*) '95. Astronomy, Mathematics	Holton, Kan.
Johnson, John Rochelle Lee	A.B. (*William and Mary c.*) '94. English	South Quay, Va.
Johnson, Lucy, *s*	Ph.B. (*u. of Michigan*) '93. History, Latin	Kalamazoo, Mich.
Johnson, Reginald Hall, *s*	A.B. (*u. of Wisconsin*) '96; A.M. (*Columbia u.*) '99. Romance	Minton Place, O.
Johnson, Ruth Isabel, *w*	Ph.B. (*u. of Chicago*) '99. English	Chicago
Jones, David, *s*	A.B. (*Penn c.*) '00. Political Science, Sociology	Oskaloosa, Ia.
Jones, Delta Pearl, *s*	A.B. (*Bellevue c.*) '97. Latin	Bellevue, Neb.
Jones, Sarah Jane, *s*	A.B. (*Grove City c.*) '01. Greek, German	McKeesport, Pa.
Jones, Thomas Almon, *w*	A.B. (*Kentucky State c.*) '00. Anatomy, Physiology	Montpelier, Ky.
Jones, Ward Murray, *s*	B.C.E. *Iowa State c.*) '97. Mathematics	Allison, Ia.
Jordan, Elijah John, *a w*	A.B. (*Dalhousie u.*) '91. Sociology, Political Economy	Bridgetown, N. S.
Jordan, Herbert Edwin, *a w*	A.B. (*McMaster u.*) '00; A.M. (*Ibid.*) '01. Mathematics (*fel.*), Astronomy	Lemonville, Can.
Joslyn, Arthur Everett, *s*	S.B. (*Northwestern u.*) '03. Mathematics	Marengo
Junkin, Finsley Perrick, *s*	A.B. (*Austin c.*) '93; A.B. (*u. of Virginia*); A.M. (*Ibid.*) '01. Mathematics	College Station, Tex.
Katherman, Charles Augustus, *s a w*	A.B. (*Kansas State u.*) '97; A.M. (*Ibid.*) '98. Anatomy	Lawrence, Kan.
Kay, George Frederick, *a w*	A.B. (*u. of Toronto*) '00; A.M. (*Ibid.*) '02. Geology (*fel.*)	Virginia, Ont.
Keirstead, Wilfred Currier, *a*	A.B. (*u. of New Brunswick*) '98; (*Ibid.*) '00. Philosophy	Wolfville, N. B.
Keith, Mary Helen, *s*	S.B. (*Mt. Holyoke c.*) '94. Physics	Greenfield, Mass.
Keith, Mildred Hannah, *s*	A.B. (*u. of Michigan*) '00; A.M. (*Ibid.*) '01. Latin, Greek	Pontiac, Mich.
Keller, Charles Philip, *s*	Ph.B. (*DePauw u.*) '96. Mathematics, Physics	Brazil, Ind.
Keller, William Jacob, *s a w*	A.B. (*Northwestern u.*) '00; A.M. (*Ibid.*) '01. Greek (*fel.*)	Chicago
Kellerman, Ivy, *s a w*	A.B. (*Ohio State u.*) '88; A.M. (*Cornell u.*) '99. Sanskrit	Columbus, O.
Kelley, James Herbert, *s*	S.B. (*Cornell c.*) '00. Political Economy, Philosophy	Tonkawa, Okla.
Kells, Mabel Avery, *s*	A.B. (*u. of Chicago*) '00. German	Sauk Center, Minn.
Kennedy, Mary Elizabeth, *s*	Ph.B. (*Oberlin c.*) '99; A.M. (*Ibid.*) '00. Botany	Oberlin, O.
Kennedy, Mary Jackson, *s a w*	A.B. (*Belmont c.*) '83. Latin (*fel.*), Greek	Norwood, O.
Kesler, Kate Hayes (Mrs.), *s*	A.B. (*Missouri State u.*) '86; Pd.B. (*Ibid.*) '86. History	Georgetown, Ky.
Kesler, John Louis, *s*	A.B. (*Wake Forest c.*) '01. Anatomy, Physiology	Georgetown, Ky.
Kilby, Clinton Manry, *s*	A.M. (*Randolph-Macon c.*) '96. Mathematics	Suffolk, Va.
Kildahl, Wilsine Johanna, *s*	A.B. (*u. of N. Dakota*) '98; A.M. (*Ibid.*) '00. Botany	Maza, N. Dak.
Kilpatrick, Howard Malcolm, *s*	S.B. (*Alabama Polytechnic inst.*) '03. Chemistry	White Plains, Ga.
King, James Alexander, *s*	S.B. (*Simpson c.*) '02. Political Economy, Political Science	Bagley, Ia.
King, Joseph Wood, *s*	S.B. (*Alabama Polytechnic inst.*) '98; S.M. (*Ibid.*) '99. English, History	Cusseta, Ga.
King, Lloyd Everett, *s*	S.B. in Elec. Eng. (*Purdue u.*) '97. Physics, Mathematics	Avilla, Ind.
Kinne, John Baylor, *a w*	S.B. (*Fargo c.*) '03. Anatomy, Physiology	Fargo, N. Dak.
Kirscher, Elida Caroline, *s*	A.B. (*Washington u.*) '99; A.M. (*u. of Missouri*) '02. German.	St. Louis, Mo.
Kirk, Edwin Garrey, *a w*	S.B. (*u. of Chicago*) '02. Anatomy (*fel.*)	Lima, O.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Kirk, Sherman, *s*	A.B. (*Bethany c.*) '88; A.M. (*Ibid.*) '98. Greek	Des Moines, Ia.
Kirkpatrick, Charles, *s*	A.B. (*Cornell c.*) '01. Physics, Political Science	Spencer, Ia.
Knight, Flora Cornelia, *a w*	A.B. (*u. of Wyoming*) '00. English	Laramie, Wyo.
Knight, Harriet, *s*	A.B. (*u. of Wyoming*) '98. History, English	Cheyenne, Wyo.
Knight, Henry Granger, *s*	A.B. (*u. of Washington*) '02. Chemistry	Leland, Wash.
Knight, Lee Irving, *s*	A.B. (*u. of Illinois*) '01. Latin, German, Romance	Crowley, La.
Knowles, Frank Elwood, *s*	Ph.B. (*Drake u.*) '00. Mathematics	Ackley, Ia.
Knox, James McBryde, *s*	Ph.B. (*Colorado c.*) '02. Anatomy, Physiology	Cedar Rapids, Ia.
Koch, Aurelia, *a*	Ph.B. (*u. of Chicago*) '02. English	Chicago
Kohl, Clayton Charles, *s*	Ph.B. (*Ohio State u.*) '01. History, Political Science	Mechanicsburg, O.
Krause, Carl Albert, *s*	A.B. (*Eureka c.*) '95; A.M. (*Ibid.*) '97. German, Romance	Lafayette, Ind.
Krehbiel, Edward Benjamin, *s a w*	A B. (*u. of Kansas*) '02. History (*fel.*)	Halstead, Kan.
Kretzinger, Clare Josephine, *s*	A.B. (*u. of Chicago*) '02. English	Austin
Kretzinger, George Wilson, *s*	A.B. (*u. of Chicago*) '01. English	Austin
Kruse, Henry Otto, *a w*	A.B. (*u. of Kansas*) '03. German, Philosophy	Halstead, Kan.
Kuhne, Jules William, *a w*	(*College de France*) Romance	Limeville, Ia.
Kuonen, Etienne, *s a w*	A.B. (*DePauw u.*) '03. Romance	Greencastle, Ind.
Kyle, Martha Jackson, *s*	A.B (*u. of Illinois*) '97; A.M. (*Ibid.*) '98. English	Urbana
Lacy, Etta May, *s a w*	A.B. (*Stephens c., Mo.*) '92. History	Knob Noster, Mo.
Land, William Jesse Goad, *a w*	S.B. (*u. of Chicago*) '02. Botany (*fel.*)	Ashley
Landers, Julia E., *s*	A.B. (*Bryn Mawr c.*) '94. Mathematics, History	Indianapolis, Ind.
Landes, Henry, *a w*	A.B. (*Indiana u.*) '92; A.B. (*Harvard u.*) '92; A.M. (*Ibid.*) '93. Geology (*fel.*), Geography	Seattle, Wash.
Lane, Frank Hardy, *s*	Ph.B. (*Northwestern u.*) '95; Ph.M. (*Ibid.*) '99. English	Naperville
Lane, Henry Higgins, *w*	Ph.B. (*DePauw u.*) '99; A.M. (*Indiana u.*) '03. Zoölogy, Physiology	Lebanon, Ind.
Langellier, Roxane Emilie, *s a w*	Ph.B. (*u. of Chicago*) '02. Romance	Watseka
Larsen, Caspar George, *a w*	Ph.B. (*Upper Iowa u.*) '98. Philosophy (*fel.*)	Ridgeway, Ia.
Lathrop, Elizabeth Adams, *s*	A.B. (*Milwaukee Downer c.*) '02. English	Ashland, Wis.
Lauck, William Jett, *a w*	A.B. (*Washington & Lee u.*) '02. Political Economy (*fel.*), Political Science, History	Keyser, W. Va.
Laughlin, Agatha, *a w*	A.B. (*Bryn Mawr c.*) '03. History, Latin	Chicago
Lavers, Lida Anna, *s*	A.B. (*Woman's c., Baltimore*) '02. German, History	Easton, Pa.
Lawrence, Margaret, *s*	S.B. (*Tabor c.*) '91; A.M. (*Ibid.*) '98. Mathematics	Milburn
Leathers, Walter Smith, *s*	M.D. (*u. of Virginia*) '95. Zoölogy, Geology	Columbia, S. C.
Lee, Frances A., *s*	A.B. (*Wilberforce u.*) '99. English	Wilberforce, O.
Lees, James Henry, *a w*	A.B. (*Cornell c.*) '01; S.M. (*Iowa c.*) '03. Geology (*fel.*), Geography, Paleontology	Cedar Rapids, Ia,
Leffingwell, Ernest DeKoven, *s*	A.B. (*Trinity c.*) '95. Physics, Chemistry	Knoxville
Lehman, Daniel Acker, *s*	Ph.B. (*Wesleyan u. of Connecticut*) '93. Mathematics, Physics	Orchard Lake, Mich.
Leonard, Hermann Burr, *s a w*	S.B. (*u. of Michigan*) '95. Mathematics.	Detroit, Mich.
Lewis, Elizabeth Dabney Langhorne, *s w*	A.B. (*Bryn Mawr c.*) '01. Political Science, Sociology, History	Lynchburg, Va.
Lewis, Florence Parthenia, *s*	A.B. (*u. of Texas*) '97; A.M. (*Ibid.*) '98. Mathematics	Austin, Tex.
Lewis, Jenette, *s*	A.B. (*Cornell c.*) '94. Greek	Rockwell City
Libby, George Nelson, *a*	S.B. (*u. of Chicago*) '00. Chemistry	Tecumseh, Neb.
Libis, Metta Maud (Mrs.), *w*	A.B. (*Oberlin c.*) '97. English, History	Akron, O.
Lichtenwanger, Anna Theresa, *s*	A.B. (*u. of Tennessee*) '98. Latin, Greek	Knoxville, Tenn.
Lieb, Cassius M., *s*	A.B. (*u. of Missouri*) '02. Philosophy	Maryville, Mo.
Life, Andrew Creamor, *s a*	A.B. (*Indiana u.*) '96; A.M. (*Ibid.*) '97. Botany	Fairmount, Ind.
Lincoln, Mary Cain, *s*	Ph.B. (*u. of Chicago*) '01. Anatomy, Physiology	Chicago

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Lind, John Gustave, *s*	S.B. (*u. of Utah*) '93. Geology	Ogden, Utah
Lindley, Harlow, *a*	L.B. (*Earlham c.*) '98; A.M. (*Ibid.*) '99. History	Richmond, Ind.
Lindquist, Theodore, *s*	A.B. (*Lombard c.*) '97; S.M. (*Northwestern u.*) '99. Mathematics, Astronomy	Chicago
Lindsay, Sarah Frances, *a*	Ph.B. (*u. of Chicago*) '00. English	Chicago
Linthicom, Porter Hodge, *s*	A.B. (*Yale u.*) '01. Anatomy	Evansville, Ind.
Lipman, Maurice Chauncey, *s*	Ph.B. (*u. of Chicago*) '03. English, History	Chicago
Lister, John Thomas, *s*	A.B. (*Butler c.*) '97. Romance	Brookston, Ind.
Loeb, Hedwig, *w*	Ph.B. (*u. of Chicago*) '02. History	Chicago
Lollar, Ezra Eliot, *s*	A.B. (*Otterbein u.*) '93. Sociology, English	Garrett, Ind.
Lommen, Christian Peter, *s*	S.B. (*u. of Minnesota*) '91. Zoölogy	Vermillion, S. Dak.
Long, Fannie Belle, *s*	Ph.B. (*Cornell c.*) '02. Latin, English	Knoxville, Ia.
Longley, Jonas Rhodes, *a w*	S.B. (*u. of Nebraska*) '02. Physiological Chemistry	North Platte, Neb.
Longley, William Raymond, *s*	A.B. (*Butler c.*) '02. Mathematics, Astronomy	Noblesville, Ind.
Lord, Richard Collins, *s*	A.M. (*Washington & Lee u.*) '02. Chemistry	Anchorage, Ky.
Loughridge, Julia Emmeline, *s*	A.B. (*u. of Nebraska*) '99. Mathematics.	Lincoln, Neb.
Lucht, Julius, *s*	A.B. (*Harvard u.*) '99, Latin	Davenport, Ia.
Lundgren, Albert Theodore, *a w*	S.B. (*Knox c.*) '01. Anatomy.	Galesburg
Lundquist, Gustaf Adolph, *s*	A.B. (*Gustavus Adolphus c.*) '01. History, Political Science	St. Peter, Minn.
Lytle Anna Webster, *s*	A.B. (*u. of Nebraska*) '98. English	Greenwood, Neb.
Machen, John Gresham, *s*	A.B. (*Johns Hopkins u.*) '02. Political Economy, Political Science	Baltimore, Md.
Madden, Myrtle, *w*	Ph.B. (*DePauw u.*) '98. German	Chicago
Maddocks, Caroline, *w*	A.B. (*Wellesley c.*) '92. English	Chicago
Mahood, Edward Wilbridge, *s*	A.B. (*Northwestern u.*) '93; A.M. (*u. of Iowa*) '94. Philosophy.	Iowa City, Ia.
Manning, Priestly Hartwell, *s*	A.B. (*u. of Nashville*) '90; A.M. (*Ibid.*) '91. Geology, Botany	Nashville, Tenn.
Manning, William Ray, *a w*	A.B. (*Baker u.*) '99; A.M. (*u. of Kansas*) '02. History (*fel.*), Political Science	Summerfield, Kan.
Manwaring, Wilfred Hamilton, *s*	S.B. (*u. of Michigan*) '95. Zoölogy	Winona, Minn.
Marsh, Charles Dwight, *a w*	A.B. (*Amherst c.*) '77; A.M. (*Ibid.*) '88. Zoölogy, Botany	Chicago
Marston, Charles, *s*	A.B. (*Maryville c.*) '93; A.M. (*Ibid.*) '00. English	Maryville, Tenn.
Martin, Cornelia Childress, *s*	A.B. (*u. of Nashville*) '00; A.M. (*Ibid.*) '01. Philosophy	Nashville, Tenn.
Martin, Murray Kerr, *s*	A.B. (*Illinois c.*) '93. Latin	Abingdon
Matheny, Francis Edmund, *s*	Ph.B. (*Berea c., Ky.*) '98. Philosophy, History	Caspar, Wyo.
Mathewson, John, *s*	A.M. (*Queen's u.*) '01. Mathematics	Armow, Can.
Mathews, Mary Pepper, *s*	A.B. (*u. of Nashville*) '00. Philosophy, English	Springfield, Tenn.
Mathewson, Walter Elbridge, *s*	S.B. (*Kansas Agricultural c.*) '01. Chemistry	Manhattan, Kan.
Meinzer, Oscar Edward, *s*	A.B. (*Beloit c.*) '01. Geology	Davis
Melander, Axel Leonard, *a*	S.B. (*u. of Texas*) '01; S.M. (*Ibid.*) '02. Zoölogy (*fel.*)	Chicago
Melton, George Lane, *a w*	S.B. (*Kansas State Agricultural c.*) '93; Ph.B. (*u. of Chicago*) '02. History (*fel.*), Political Science	Chicago
Mercier, Louis Joseph, *s a w*	A.B. (*St. Ignatius c.*) '00; A.M. (*Ibid.*) '02. Romance (*fel.*)	Chicago
Mertz, Alice, *s*	A.B. (*Indiana u.*) '96. History, English	Burnett's Creek, Ind.
Messick, Elizabeth, *s*	Ph.B. (*u. of Chicago*) '97. Latin, English	Memphis, Tenn.
Myer, Julius Bantlin, *s*	S.B. (*Purdue u.*) '97. Mathematics	Brookville, Ind.
Miladofsky, Emily, *s*	S.B. (*u. of Chicago*) '01. Mathematics	Chicago
Miles, Dudley Howe, *s*	A.B. (*Southwestern u.*) '02. English	Plano, Tex.
Miller, Ada Jane, *a w*	S.B. (*Cornell c.*) '87. English	Cedar Rapids, Ia.
Miller, Clara Worst, *s*	L.B. (*Hiram c.*) '98. Latin	Ashland, O.
Miller, Edward Alanson, *s*	A.B. (*Oberlin c.*) '97. Education, Philosophy	Oberlin, O.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Miller, Ellen Crane, *s*	A.B. (*Mt. Holyoke c.*) '87. History	Des Moines, Ia.
Miller, Eleanora Tibbets, *s*	A.B. (*u. of Nebraska*) '00; A.M. (*Ibid.*) '02. Mathematics	Lincoln, Neb.
Miller, Homer Ramsdell, *s*	A.B. (*Princeton u.*) '91; A.M. (*Ibid*) '93. Latin	Des Moines, Ia.
Mills, Charlotte Edna, *s*	A.B. (*Ohio Wesleyan u.*) '01. English, History	Peoria
Mills, Joseph Crandall, *a w*	A.B. (*u. of New Brunswick*) '98. English, German	Sussex, N. B.
Mills, Lena Pearce, *s*	A.B (*Boscobel c.*) '01. History	Milan, Tenn.
Mills, Ward Magoon, *s*	S.B. (*u. of Chicago*) '01. Chemistry	Chicago
Minard, Archibald Ellsworth, *a*	A.B. (*Harvard u.*) '01; A.M. (*Ibid.*) '02. Semitic, Biblical Greek (*fel.*)	Allston, Mass.
Miner, Carl Shelley, *s*	S.B. (*u. of Chicago*) '03. Chemistry	Cedar Rapids, Ia.
Mitchell, Robert McBurney, *a w*	A.B. (*u. of Chicago*) '03. English	Seattle, Wash.
Moffatt, William Eugene, *a w*	A.B. (*u. of Chicago*) '96. Sanskrit, Greek	Chicago
Mooney, Clara Lilian, *s*	A.B. (*u. of Chicago*) '99. Latin	Chicago
Moore, Flora Patience, *a w*	S.B. (*Northwestern u.*) '96. German	Moscow, Idaho
Moore, John Calvin, *s*	S.B. (*Vanderbilt u.*) '98. Chemistry, Physics	Nashville, Tenn.
Moore, Robert Lee, *a w*	S.B. (*u. of Texas*) '01; A.M. (*Ibid.*) '01. Mathematics (*fel.*), Astronomy	Dallas, Tex.
Moore, Stephen Halcut, *s*	A.B. (*Vanderbilt u.*) '94. Greek, Latin	Georgetown, Tex.
Moore, William Henry Hudson, *a w*	S.B. (*Purdue u.*) '03. Physiology, Neurology	Lafayette, Ind.
Monsch, Genevieve Antoinette, *s*	S.B. (*u. of Chicago*) '02. Zoölogy, Botany	Louisville, Ky.
Montgomery, Florence Mabel, *s*	A.B. (*Kansas State u.*) '00. Latin, English	Troy, Kan.
Morris, Thomas Johnson, *a w*	A.B (*Bucknell c.*) '00; A.M. (*Ibid.*) '03. Latin (*fel.*)	Hightstown, N. J.
Morrison, Charles Clayton, *s a w*	A.B. (*Drake u.*) '98. Philosophy (*fel.*)	Chicago
Morrison, Florence Irene, *s a w*	A.B. (*u. of Chicago*) '02. Greek, Latin	Indianapolis, Ind.
Morrison, William Pope, *s*	A.B. (*u. of Nashville*) '99. German	Murray, Ky.
Morse, Anna Sophia, *w*	Ph.B. (*u. of Chicago*) '00. English	Newbury, Vt.
Morse, Edward Leland Clark, *s a*	A.B. (*Harvard u.*) '77; LL.B. (*Chicago c. of Law*). History, Political Science	Chicago
Morton, Roscoe Blake, *w*	S.B. (*Cornell u.*) '99. Geology	Chicago
Moulder, James Louis, *s*	S.B. (*Alabama Polytechnic inst.*) '96. Latin, History	Cusseta, Ga.
Muenter, Erich, *s*	A.B. (*u. of Chicago*) '99. German	Chicago
Mumford, Eben, *s*	A.B. (*Buchtel c.*) '96. Political Economy	Alcony, O.
McBurney, Maud, *s*	A.B. (*u. of Chicago*) '01. Latin, Romance	Loda
McCallum, William Burnet, *s a w*	B.S.A. (*u. of Toronto*) '94. Botany	Guelph, Ont.
McClain, William, Jr., *s*	A.B. (*Ohio Wesleyan u.*) '93; A.M. (*Ibid.*) '95. Mathematics	Sunbury, O.
McCrimmon, Abraham Lincoln, *a w*	A.B. (*u. of Toronto*) '90; A.M. (*Ibid.*) '91. Political Economy	Woodstock, Ont.
McDavitt, Edna Josephine, *a*	A.B. (*Coates c.*) '94. Latin, Romance	Kansas
McDonald, John Allen, *s a w*	A.B. (*McMaster u.*) '01; A.M. (*Ibid.*) '02. Latin, Greek	Peterboro, Ont.
McDonald, Lillian, *s*	Ph.B. (*Black Hills c.*) '94: A.B. (*Boston u.*) '99. Romance	Mt. Pleasant, Ia.
McDonald, Neil C., *s*	A.B. (*u. of N. Dakota*) '00. Political Economy, Political Science	Hannah, N. Dak.
McDonald, Warren Thomas, *s*	A.B. (*William Jewell c.*) '00; A.M. (*Ibid.*) '01. Latin, Greek	Liberty, Mo.
Macdougal, Margaret, *a w*	Ph.B. (*De Pauw u.*) '00. English	Washington, Ind.
McGaffin, Alexander, *a w*	A.B. (*Princeton u.*) '94; A.M. (*Ibid.*) '97. Philosophy, Sociology	Brooklyn, N. Y.
McGhie, Robert Lindsay, *a w*	A.B. (*u. of Utah*) '97. Latin, Greek	Salt Lake City, Utah
McGill, Harry Albert, *s*	A.B. (*Butler c.*) '02; A.B. (*u. of Chicago*) '03. History	Patten Mills, O.
McGuigan, Hugh, *a w*	S.B. (*North Dakota Agricultural c.*) '98. Physiology (*fel.*), Chemistry, Bacteriology	Fargo, N. Dak.
McKean, Emma May, *s*	A.B. (*Baldwin u.*) '85; A.M. (*Ibid.*) '88. Romance	Berea, O.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
McKellar, Harry Rex, *s*	A.B. (*Emory c.*) '01. Latin	Americus, Ga.
McKenzie, Ury, *s*	A.B. (*u. of Nashville*) '00. Philosophy	Monticello, Ark.
McKinley, Alexander Daniel, *s a w*	S.B. (*Iowa State c.*) '00. Anatomy, Physiology	Waterloo, Ia.
McKinley, Alice Maud, *s a w*	A.B. (*Western Reserve u.*) '96. Latin	Chicago
McLaury, Anna, *s*	S.B. (*Wellesley c.*) '86. English	Fredonia, N. Y.
McLeary, John, *s*	(*McAllister c.*) '97. Sociology	Rapid City, S. Dak.
McLeod, Andrew Findley, *a w*	A.B. (*u. of Chicago*) '03. Chemistry	Chicago
McManis, John T., *s a w*	A.B. (*Leland Stanford u.*) '97; A.M. (*Ibid.*) '02. Education (*fel.*)	Chicago
McMartin, Charles, *a w*	Ph.B. (*Iowa c.*) '02. Anatomy, Pathology	Dunlap, Ia.
Nast, Mary Eleanor, *s*	A.B. (*Woman's c. of Baltimore*) '02. Pathology, Physiology	Cincinnati, O.
Neff, Isaac Franklin, *s*	S.B. (*Drake u.*) '02. Mathematics	Des Moines, Ia.
Nelson, Harold Hayden, *s a w*	A.B. (*u. of Chicago*) '01. Greek	Chicago
Nelson, Roy Batchelder, *s a w*	A.B. (*u. of Chicago*) '01. Sanskrit (*fel.*)	Oshkosh, Wis.
Neville, Mary, *s a w*	A.B. (*Bryn Mawr c.*) '94. Latin	Lexington, Ky.
Nevius, John Wilson, *a w*	S.B. (*u. of Wisconsin*) '02. Anatomy, Physiology	Los Angeles, Calif.
Newhall, Charles Watson, *s*	A.B. (*Johns Hopkins u.*) '93. Mathematics	Faribault, Minn.
Newlands, James Andrew, *s*	A.B. (*Beloit c.*) '03. Pathology	McKeesport, Pa.
Newmann, Horatio Hackett, *s*	A.B. (*McMaster's u.*) '96. Zoölogy	Toronto, Ont.
Newport, Clara Price, *a w*	A.B. (*Swarthmore c.*) '03. German	South Milwaukee, Wis.
Nida, William Lewis, *s*	Ph.B. (*Ohio State u.*) '01. History, Political Economy	Stryker, O.
Noble, Robert William Peele, *a w*	Ph.B. (*De Pauw u.*) '91; A.M. (*Ibid.*) '94. Chemistry, Physics	Chicago
Von Noe, Adolph Charles, *a w*	*Arbiturium Gymnasium, Graz, Austria*) '92; A.B. (*u. of Chicago*) '00. German (*fel.*), Romance	Graz, Austria
Norris, Allen Anson, *s*	A.B. (*Indiana u.*) '02. Anatomy	Syracuse, Ind.
North, Alfred Myron, *a w*	S.B. (*Pacific u.*) '01. History, Political Science	Kist, Ore.
Norton, Alice Peloubet (Mrs.), *a w*	A.B. (*Smith c.*) '82; A.M. (*Ibid.*) '97. Chemistry	Chicago
Norton, Frederick Owen, *s a*	A.B. (*Kentucky u.*) '93; A.M. (*Ibid.*) '95. Biblical Greek (*fel.*), Greek	La Belle, Mo.
O'Hearn, Juliet, *a w*	Ph.B. (*u. of Chicago*) '03. English, Sociology	Berlin, Wis.
Oldhams, Gordon Carr, *a*	A.B. (*Friend's u.*) '02. Anatomy, Physiology	Wichita, Kan.
Olmstead, Mabel, *a*	A.B. (*Washington u.*) '01. German	St. Louis, Mo.
Osborn, Clyde Ernest, *s*	Ph.B. (*Shurtleff c.*) '96. Physics	Upper Alton
Osborn, Mary Myrtle, *s*	A.B. (*Leland Stanford u.*) '95. English	Warrensburg, Mo.
Owens, Frederick William, *a w*	S.B. (*u. of Kansas*) '02; S.M. (*Ibid.*) '02. Mathematics, Physics	Lawrence, Kan.
Oyen, Albert Nelson, *s*	A.B. (*u. of Illinois*) '02. Anatomy	Chicago
Paisley, Minnie McDonald, *s*	A.B. (*u. of Chicago*) '99. Latin, Greek	Hillsboro
Park, Elizabeth, *s*	S.B. (*Drury c.*) '89; S.M. (*Ibid.*) '92. Mathematics	Springfield, Mo.
Parker, Clarke Rodney, *s*	Ph.B. (*Franklin c.*) '97. Political Science, History	Franklin, Ind.
Parker, Laura Minerva, *s*	S.B. (*u. of Chicago*) '01. History	Vernon, Tex.
Parker, Samuel Chester, *s*	A.B. (*u. of Cincinnati*) '01. Philosophy, Education	Cincinnati, O.
Parker, Ulysses Simpson, *a w*	A.B. (*u. of Nebraska*) '98; A.M. (*Harvard u.*) '00. Political Economy, Political Science	Ouray, Colo.
Parsons, Lester Burr, *s*	A.B. (*Cornell c.*) '95. Sociology, Philosophy	Sibley, Ia.
Parsons, Charles Wesley Darwin, *s*	A.B. (*Cornell u.*) '97. Chemistry	Evanston
Patrick, Benjamin Sweat, *s*	S.B. (*Alabama Polytechnic inst.*) '97; S.M. (*Ibid.*) '03. Mathematics	Auburn, Ala.
Patrick, Cordelia Danforth, *a*	Ph.B. (*u. of Chicago*) '03. Philosophy	Chicago
Patterson, Lizzie Darden, *s*	A.B. (*u. of Nashville*) '00. Astronomy, Geology	Columbus, Ga.
Peaks, Mary Bradford, *a w*	A.B. (*u. of Chicago*) '00. Latin (*fel.*)	Menominee, Mich.
Pearson, Edwin Arthur, *s*	A.B. (*Beloit c.*) '01. Anatomy	Beloit, Wis.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Pease, Samuel James, *s a w*	A.B. (*Northwestern u.*) '97; A.M. (*Ibid.*) '98. Greek (*fel.*), Latin	Highwood
Peet, Charles Emerson, *s*	S.B. (*u. of Wisconsin*) '92. Geology	Chicago
Peet, Julia Dumke (Mrs.), *s*	Ph.B. (*u. of Chicago*) '98. German	Chicago
Pegues, Albert Shipp, *s*	A.B. (*Wofford c.*) '92; A.M. (*Ibid.*) '95. English, History	Georgetown, Tex.
Pellett, Sarah Frances, *s*	A.B. (*Smith c.*) '82; A.M. (*Cornell u.*) '91. Latin	Binghamton, N. Y.
Pennock, Emily Cynthia, *s*	S.B. (*Carthage c.*) '00. Latin, History	Carthage
Perkins, DeForrest Hensy, *s*	Ph.B. (*u. of Maine*) '00. Political Science, History	Skowhegan, Me.
Pettet, Ormsby Elroy, *s a w*	A.B. (*u. of Chicago*) '00. Physiology (*fel.*)	Chicago
Phillips, Tilden Frank, *s*	S.B. (*Carthage c.*) '00. Chemistry, Physics	Mt. Carroll
Pierce, Marion Virginia, *a w*	A.B. (*Swarthmore c*) '03. Romance (*fel.*)	Chester, Pa.
Piety, James C., *a w*	A.B. (*Indiana u.*) '02. History	Terre Haute, Ind.
Pike, Frank Henry, *a w*	A.B. (*Indiana u.*) '03. Anatomy, Neurology	Plainfield
Plum, Harley Martin, *s*	A.B. (*Ohio State u.*) '02. Chemistry	Ashville, O.
Portis, Moses Milton, *s*	S.B. (*u. of Chicago*) '98. Anatomy (*fel.*)	Chicago
Posey, Chessley Justin, *s a w*	S.B. (*u. of Illinois*) '00. Geology	Posey
Potts, Charles Shirley, *s*	A.B. (*u. of Texas*) '02; A.M. (*Ibid.*) '02. Political Economy, History	Ranger, Tex.
Powell, Nettie, *s a w*	A.B. (*u. of Georgia*) '96. Mathematics	Buena Vista, Ia.
Powell, Wade Hampton, *s*	S.B. (*Center c.*) '99. Latin	Cuero, Tex.
Preuss, Bertha Helen, *s a w*	Ph.B. (*u. of Wisconsin*) '00. German, Romance	Belle Plain, Wis.
Pullian, Elizabeth Blackwell, *s*	A.B. (*Georgetown c.*) '98. Latin	Danville, Ky.
Putnam, James William, *s*	S.B. (*Illinois c.*) '94; Ph.B. (*Ibid.*) '97. History, Political Science	Jacksonville
Radebaugh, William, *a w*	A.B. (*U. S. Grant u.*) '93; A.M. (*Illinois Wesleyan u.*) '94. Philosophy	Danville
Redford, Ethel Sanderson, *w*	A.B. (*McGill u.*) '95. Chemistry, Botany	Seattle, Wash.
Ragland, George, *s*	A.B. (*Richmond c.*) '96. Greek	Waco, Tex.
Randall, James Garfield, *a w*	A.B. (*Butler c.*) '03; A.B. (*u. of Chicago*) '03. Sociology	Indianapolis, Ind.
Rasor, S. Eugene, *s*	S.B. (*Ohio State u.*) '98; A.M. (*Ibid.*) '02. Mathematics	Columbus, O.
Ray, Benjamin Eastwood, *a*	A.B. (*Amherst c.*) '95; D.B. (*Andover c.*) '98. History, Philosophy	Florence, Mass.
Read, Hannah Dell, *a*	A.B. (*u. of Michigan*) '01. English	Shenandoah, Ia.
Redmon, Andrew Jackson, *s*	A.B. (*Indiana u.*) '01. Chemistry, Anatomy	Peru, Ind.
Redpath, John Martin, *s*	A.B. (*u. of Chicago*) '01. Latin, Greek	Helena, Mont.
Redick, Mary Glisson, *a*	Ph.B. (*Ohio State u.*) '98. Geology	Findlay, O.
Reed, Albert Granberry, *s*	A.B. (*Vanderbilt u.*) '95; A.M. (*Yale u.*) '99. English	Austin, Tex.
Reed, James Calvin, *s*	L.B. (*u. of Michigan*) '95. History, Political Science	Tuscola
Reiterman, Alice Amelia, *s*	S.B. (*u. of Chicago*) '03. Mathematics	Chicago
Remaley, Frank Hull, *s*	A.B. (*Otterbein u.*) '01. Mathematics	Altoona, Pa.
Remington, Maud Estelle, *s*	L.B. (*u. of Wisconsin*) '81. Latin	Tacoma, Wash.
Reynolds, Frank Abram, *s*	A.B. (*Northwestern u.*) '91; A.M. (*Ibid.*) '94; A.M. (*Harvard u.*) '00. Greek	Austin, Minn.
Reynolds, Henry Presley, *s*	S.B. (*u. of Texas*) '02. Chemistry	El Paso, Tex.
Rhett, Andrew Burnet, *s*	A.B. (*u. of Virginia*) '99; A.M. (*Ibid.*) '99. English	Charleston, S. C.
Rhoton, Alvis Lemuel, *s a w*	A.B. (*Georgetown c.*) '99. Mathematics	Georgetown, Ky.
Rice, Corinne Lelia, *s*	Ph.B. (*u. of Chicago*) '99. History	Sullivan, O.
Rice, Mary Ethel, *a w*	S.B. (*Grinnell c.*) '92. Latin	Logan, Ia.
Ricketts, Howard Taylor, *a w*	S.B. (*u. of Nebraska*) '94; M.D. (*Northwestern u.*) '97. Pathology, Chemistry	Chicago
Riddle, Oscar, *s*	A.B. (*Indiana u.*) '02. Zoölogy	Bloomfield, Ind.
Riggs, Elmer Samuel, *a w*	A.B. (*u. of Kansas*) '96; A.M. (*Ibid.*) '96. Geology, Zoölogy	Chicago

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Rikle, Arthur Richard, *a w*	S.B. (*Northwestern c.*) '03. Physiology, Anatomy	Murdock, Neb.
Riley, Edgar Francis, *s a w*	A.B. (*Baker u.*) '00. Education	Lenexa, Kan.
Riley, Thomas James, *s a w*	A.B. (*Baker u.*) '00; A.M. (*Ibid.*) '03. Sociology (*fel.*) Philosophy	Chicago
Ritter, Alta, *s*	A.B. (*Indiana u.*) '99. English	Orleans, Ind.
Roberts, Elizabeth, *s*	S.B. (*u. of Wisconsin*) '94. English	Hazel Green, Wis.
Roberts, Stewart Ralph, *s*	A.B. (*Emory c.*) '02. Zoölogy, Botany	Oxford, Ga.
Robertson, David Allan, *s a w*	A.B. (*u. of Chicago*) '02. English, Romance	Chicago
Robinson, Lillian Gonzales, *s a w*	Ph.B. (*u. of Chicago*) '03. Romance	Fargo, N. Dak.
Robinson, Martha Reid, *s*	Ph.B. (*u. of Chicago*) '02. Romance, English	Newman, Ga.
Roe, Agnes Augusta, *s a w*	S.B. (*Olivet c.*) '97. English, History	Clarkston, Mich.
Roessler, Erwin William Eugene, *s*	A.B. (*u. of Chicago*) '00. Latin, Romance	Chicago
Rohde, Alice Marian, *s*	S.B. (*u. of Chicago*) '03. Chemistry	Chicago
Rohde, Sara Phelps (Mrs.), *w*	Ph.B. (*State u. of Iowa*) '03. History of Art, History	Chicago
Rolen, Andrew Peter, *s*	S.B. (*Hedding c.*) '94 S.M. (*Ibid.*) '96. Philosophy	Genesee
Rollefson, Carl Jacob, *s a w*	A.B. (*St. Olaf c.*) '90. Anatomy	Chicago
Rook, Pearl Blanche, *s*	Ph.B. (*Franklin c.*) '02. Pathology	Dunkirk, Ind.
Rosenquist, Flora Isabel, *a w*	A.B. (*u. of Kansas*) '97. Latin, English	Neosho Rapids, Kan.
Ross, Annie, *a w*	A.B. (*Swarthmore c.*) '03. Romance	Flushing, N. S.
Ross, Bennett Battle, *s*	A.B. (*Alabama Polytechnic inst.*) '81; S.M. (*Ibid.*) '86. Chemistry, Physics	Auburn, Ala.
Rowe, Eugene Charles, *s*	A.B. (*Olivet c.*) '97. Philosophy	Evart, Mich.
Royster, James Finch, *s a w*	A.B. (*Wake Forest c.*) '00. English, German	Raleigh, N. C.
Rucker, Augusta, *s*	A.B. (*u. of Texas*) '96. Anatomy, Neurology	Paris, Tex.
Ruger, Henry Alford, *s*	A.B. (*Beloit c.*) '95. Mathematics, Physics	Janesville, Wis.
Rundle, Walter Gustavus, *a w*	S.B. (*Tarkio c.*) '00. Anatomy, Physiology	Apache, Okla.
Runyan, Herbert Call, *a w*	A.B. (*u. of Indiana*) '03. Physiology, Neurology	Alexandria, Ind.
Russell, Nellie Stuart, *s*	A.B. (*Lombard c.*) '99. Latin, Romance	Woodhull
Ruth, Thyra Julia, *a*	A.B. (*Northwestern u.*) '01. Latin	Chicago
Sabin, Fannie Ellis, *w*	Ph.B. (*u. of Michigan*) '95; S.M. (*Ibid.*) '96. Latin, Greek	Hinsdale
Sage, Evan Taylor, *w*	A.B. (*u. of Nebraska*) '02. Sanskrit	Alliance, Neb.
Sanders, William Henry, *s*	A.B. (*Indiana u.*) '95; A.M. (*Ibid.*) '96. History	Rensselaer, Ind.
Sanford, Frederick Warren, *a w*	S.B. (*Illinois c.*) '90; A.B. (*Ibid.*) '94. Latin	Jacksonville
Sanford, Virginia, *s*	L.B. (*u. of Nashville*) '95. English	Galveston, Tex.
Sargent, Edward, *a w*	———. History, Philosophy	Ludington, Mich.
Sauvain, Nelson, *s*	L.B. (*u. of Wooster*) '97. History, English	Wooster, O.
Sawin, Albert Monroe, *w*	S.B. (*u. of Wisconsin*) '82; S.M. (*Ibid.*) '83. Mathematics	Evansville, Ind.
Sawtelle, Le Forest Waterman, *s*	Ph.B. (*McMinnville c.*) '98; Ph.B. (*u. of Chicago*) '02. German, English	McMinnville, Ore.
Schlesinger, Hermann Irving, *s a w*	S.B. (*u. of Chicago*) '03. Chemistry (*fel.*)	Milwaukee, Wis.
Schmidt, Lydia Marie, *a w*	L.B. (*Heidelberg u.*) '97; Ph.B. (*u. of Chicago*) '01. German, Romance	Chicago
Schryver, George, *s*	A.B. (*Cornell u.*) '97. Latin, Greek	Depauville, N. Y.
Schwegler, Raymond Alfred, *s*	A.B. (*Brown u.*) '99. Sociology	Ottawa, Kan.
Scobey, Robert Harris, *s*	A.B. (*u. of Nashville*) '01. English	Waxahachie, Tex.
Scott, Harry Fletcher, *a w*	A.B. (*Illinois c.*) '96. Latin	Indianapolis, Ind.
Scott, John William, *s a w*	A.B. (*Missouri State u.*) '96; A.M. (*Ibid.*) '97. Zoölogy (*fel.*)	Mexico, Mo.
Scott, Lee Osborn, *s a w*	A.B. (*u. of Wooster*) '01. Bacteriology (*fel.*)	New Albany, Ind.
Scudder, Jared Waterbury, *s*	A.B. (*Rutger's c.*) '83; A.M. (*Ibid.*) '86. Latin, Greek	Albany, N. Y.
Sears, Agnes, *s*	A.B. (*Iowa c.*) '98. History, English	Marshalltown, Ia.
Sears, Guy G., *s*	A.B. (*Grand Island c.*) '95. A.M. (*Ibid.*) '98. Latin	Grand Island, Neb.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Shanklin, Robert Clarence, *s*	S.B. (*Hanover c.*) '02. Physiology, Pathology	Frankfort, Ind.
Sharman, Abbie Lyon	A.B. (*u. of Wooster*) '94. English (*fel.*)	Montclair, N. J.
Shartau, Gustavus Adolphus, *s*	Ph.B. (*u. of Michigan*) '91. Mathematics, Astronomy	Chicago
Shatzer, Charles Gallatin, *s*	A.B. (*Wittenberg c.*) '00. Geology, Zoölogy	Shelby, O.
Shaw, Ina, *s*	A.B. (*Washburn c.*) '01. English	Topeka, Kan.
Shea, Martha Catherine, *a w*	A.B. (*Hardin c.*) '85. English	Mexico, Mo.
Shelford, Victor Earnest, *a w*	S.B. (*u. of Chicago*) '03. Zoölogy	Chemung, N. Y.
Shepherd, Grace M., *a w*	A.B. (*Hastings c.*) '94. English	Ottumwa, Ia.
Shriver, Mabel Angela, *s*	A.B. (*Heidelberg u.*) '99; A.M. (*Ibid.*) '00. Chemistry, Botany	Hamilton, O.
Sills, Milton, *a w*	A.B. (*u. of Chicago*) '03. Philosophy, Sociology	Chicago
Simmons, Anna Letta, *a w*	S.B. (*Carthage c.*) '00. Latin, History	Nevada, Ia.
Simons, Etoile Bessie, *a w*	A.B. (*u. of Kansas*) '95. Botany	Lawrence, Kan.
Simpson, Charles Gamble, *s*	Ph.B. (*Cornell c.*) '95. Mathematics, Astronomy	Mount Vernon, Ia.
Sims, Frederic Leon, *s*	S.B. (*u. of Chicago*) '02. Geology	Portland, Ind.
Slemons, Maud, *s*	S.B. (*Westminster c.*) '98. Mathematics, Physics	Hubbard, O.
Sloan, Lucy Adella, *a*	S.B. (*Hillsdale c.*) '85; S.M. (*Ibid.*) '88. English	Mt. Pleasant, Mich.
Smalley, Archibald Whittier, *w*	A.B. (*u. of Michigan*) '98. Latin	Chicago
Smart, Walter Kay, *a w*	Ph.B. (*u. of Chicago*) '02. English	Payson
Smedley, Lydia Martin, *s*	A.B. (*Wellesley c.*) '02. Geology	Brookford, Pa.
Smith, Adolph Belmont, *a w*	S.B. (*u. of Wisconsin*) '03. Anatomy, Physiology.	Brooklyn, Wis.
Smith, Charlotte Dillingham, *s*	Ph.B. (*u. of Chicago*) '02. Political Science	Chicago
Smith, Cornelia, *s w*	S.B. (*u. of Chicago*) '03. Geology, Chemistry	Chicago
Smith, Frances Grace, *a w*	A.B. (*Smith c.*) '93. A.M. (*Ibid.*) '00. Botany	Springfield, Mass.
Smith, Guy Delivan, *s*	A.B. (*Kalamazoo c.*) '99; A.B. (*u. of Chicago*) '00. English	Mason, Mich.
Smith, Henry Francis, *s*	A.B. (*Beloit c.*) '97; D.B. (*Yale u.*) '03. Latin	Mason City, Ia.
Smith, James Calvin, *a*	A.B. (*Howard c.*) '96; Ph.B. (*u. of Chicago*) '03. Mathematics, Astronomy	Clay, Ala.
Smith, Marcia Olive, *s a*	A.B. (*u. of Chicago*) '02. Zoölogy	Chester
Smith, Margaret Christine, *s w*	L.B. (*u. of Wisconsin*) '92. Zoölogy, Botany	Chicago
Smith, Ralph Homer, *s*	A.B. (*u. of Chicago*) '02. Physiology, Anatomy	Washington
Smyser, William Lynn, *s*	A.B. (*Penn c.*) '91. Geology	Palatine
Snapp, Cora Leslie, *s*	L.M. (*Howard Payne c.*) '00. English, Romance	Nashville, Tenn.
Snell, Sanford Storey, *s*	A.B. (*Oberlin c.*) '01. History, Mathematics	Madison, O.
Snider, Alvin Bricker, *s*	S.B. (*u. of Chicago*) '02. Anatomy	Chicago
Sniffen, Joseph Madison, *s*	A.B. (*Cornell c.*) '98; A.B. (*Harvard u.*) '02. Botany	Mt. Vernon, Ia.
Snow, Laetitia Morris, *a w*	A.B. (*Woman's c., Baltimore*) '95. Botany	Baltimore, Md.
Somervell, Mary Burke (Mrs.)	A.B. (*Mary Sharp c.*) '82. A.B. (*u. of Chicago*) '03. Latin, English	Little Rock, Ark.
Soyez, Mary Cunningham, *s*	A.B. (*Shepardson c.*) '97. Latin	Mansfield, O.
Spence, Nellie, *s*	A.B. (*u. of Toronto*) '87. English, Greek	Toronto, Ont.
Spencer, Adelin Elam, *s*	A.B. (*Tulane u.*) '92; A.M. (*Ibid.*) '94; S.M. (*Cornell u.*) '96. Physiology, Botany	New Orleans, La.
Spencer, Benjamin Townly, *s*	A.B. (*Kentucky Wesleyan c.*) '79; A.M. (*Ibid.*) '82. Greek	Winchester, Ky.
Spencer, Edward Mitchell, *s*	A.B. (*Wesleyan u.*) '99; A.M. (*u. of Pennsylvania*) '00. English, History	Evanston
Spencer, Mary Cass, *s*	A.B. (*Tulane u.*) '92; S.M. (*Cornell u.*) '95. Physics	New Orleans, La.
Sperry, Charlene, *s*	A.B. (*Oberlin c.*) '01. German	Des Moines, Ia.
Spooner, John Paul, *s*	A.B. (*Indiana u.*) '00. Anatomy, Botany	Peru, Ind.
Sprott, Robert James, *s*	A.B. (*u. of Toronto*) '00. Romance	Winnipeg, Manitoba
Stair, Bird Williams, *s*	S.B. (*Purdue u.*) '99; S.M. (*Ibid.*) '01. English	Buck Creek, Ind.
Stanley, Mary Frances, *a w*	A.B. (*Des Moines c.*) '03. History, Sociology	Eldora, Ia.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Stauffacher, Charles John, *a w*	S.B. (*Northwestern c.*) '03. Anatomy, Physiology	Monroe, Wis.
Stayt, Annette, *s*	L.B. (*u. of Michigan*) '91. Latin, Greek	Creston, Ia.
Stearn, Mamie Adeline, *a*	Ph.B. (*u. of Chicago*) '03. English, German	Chicago
Stearns, John Burroughs, *s*	A.B. (*u. of Wisconsin*) '02; A.M. (*Ibid.*) '03. Latin, Greek	Chicago
Stearns, Stella Burger, *a w*	A.B. (*u. of Minnesota*) '92. English	Duluth, Minn.
Steele, Katherine Delia, *s*	A.B. (*u. of Minnesota*) '03. Political Science	Princeton
Stephenson, Florence Tyler (Mrs.), *s*	A.B. (*Oberlin c.*) '82. English	Iowa City, Ia.
Stevens, Annie Winn, *s*	A.B. (*u. of Chicago*) '03. Philosophy, English	Augusta, Ga.
Stevens, Elbert Marcus, *s*	A.B. (*u. of South Dakota*) '94; A.M. (*Yale u.*) '98. Philosophy	Rapid City, S. Dak.
Stevens, Jessie Eliza, *s*	S.B. (*u. of Minnesota*) '96. Mathematics, Physics	Minneapolis, Minn.
Stevens, Philip Hadley, *a w*	A.B. (*Iowa c.*) '00. English	Blair, Neb.
Stevenson, Olla, *s*	L.B. (*Northwestern u.*) '02. German, English	Nebraska City, Neb.
Stillhamer, Arthur Grant, *s a w*	S.B. (*Illinois Wesleyan u.*) '98; A.M. (*Ibid.*) '00. Mathematics, Physics (*fel.*)	Bloomington
Stillwell, Catherine Marion, *a*	Ph.B. (*u. of Chicago*) '03. Education	Chicago
Stillwell, James Forrest, *s*	A.B. (*Newberry c.*) '99. Philosophy	Prosperity, S. C.
Stocking, Fred Foster, *a w*	A.B. (*u. of Chicago*) '03. Neurology, Physiology	Clarendon, Tex.
Stout, Howard M.	Ph.B. (*Earlham c.*) '96. Mathematics	New London, Ind.
Stout, Selatie Edgar, *s*	A.B. (*William Jewell c.*) '01. Latin, Greek	Chillicothe, Mo.
Street, Helen Dougal, *s*	A.B. (*u. of Wisconsin*) '76; A.M. (*Ibid.*) '79. Greek, Latin	Chicago
Strong, Julia Worthington, *w*	A.B. (*Smith c.*) '93. History	Northampton, Mass.
Strope, Leola, *s*	A.B. (*u. of Kansas*) '02. Latin, English	Columbus, Kan.
Studley, Duane, *s*	S.B. (*Cornell u.*) '81. Mathematics, Astronomy	Crawfordsville, Ind.
Sumner, John True, *a w*	A.B. (*u. of Nebraska*) '95. Anatomy, Zoölogy	Omaha, Neb.
Sundwall, John, *s a w*	Ph.B. (*u. of Utah*) '01; D.B. (*Ibid.*) '02. Anatomy, Physiology	Fairview, Utah
Surrey, Frank Miller, *s*	A.B. (*Dartmouth c.*) '99. Philosophy	Middleboro, Mass.
Sutton, Vida Ravenscroft, *s a w*	A.B. (*u. of Chicago*) '03. Philosophy, English	Helena, Mont.
Swift, Charles Henry, *a w*	A.B. (*u. of Chicago*) '03. Botany, Geography	Chicago
Sydenstiecker, Edgar, *s*	A.B. (*Fredericksburg c.*) '00; A.M. (*Washington & Lee u.*). Political Economy, Sociology	Orancock, Va.
Taggart, Anna, *s*	A.B.(*Shurtleff c.*) '91; A.M. (*Ibid.*) '98. Philosophy	Upper Alton
Takahoshi, Katashi, *a w*	(*Imperial u. of Japan*) '01. Neurology, Zoölogy	Tokyo, Japan
Talbert, Ernest Lynn, *s*	A.B. (*Butler c.*) '01; A.B. (*u. of Chicago*) '01. Sociology, Philosophy	Indianapolis, Ind.
Talbot, Margaret Chichester, *s*	A.B. (*Lake Forest c.*) '02. Latin, German	De Pere, Wis.
Tannreuther, George, *a w*	A.B. (*Manchester c.*) '00; A.M. (*Antioch c.*) '01. Zoölogy, Botany	Brandt, O.
Taylor, Addie, *s*	A.B. (*Randolph-Macon c.*) '03. English	Crewe, Va.
Taylor, Arthur Elijah, *s a w*	Ph.B. (*Hiram c.*) '91. Geology	Findlay, O.
Taylor, George Coffin, *s a w*	A.B. (*South Carolina c.*) '97; A.M. (*Harvard u.*) '99. English (*fel.*)	Columbia, S. C.
Taylor, Howard Frank, *a w*	A.B. (*Yale u.*) '02. Sanskrit, Latin	Hartford, Conn.
Tear, Daniel Ambrose, *s a w*	Ph.B. (*Southwest Kansas c.*) '96. Philosophy, Education	Chicago
Temple, Frances Congden (Mrs.), *s a w*	A.B. (*u. of Chicago*) '02. Philosophy	Chicago
Templin, William Henry, *s*	S.B. (*DePauw u.*) '97. Mathematics	Otterbein, Ind.
Terry, Oliver Perkins, *a w*	S.B. (*Purdue u.*) '03. Anatomy, Physiology	Lafayette, Ind.
Test, Charles Darwin, *s*	B.M.E. (*Purdue u.*) '94; A.C. (*Ibid.*) '96. Chemistry, Geology	Lafayette, Ind.
Test, Louis Agassiz, *s a*	B.M.E. (*Purdue u.*) '94; A.C. (*Ibid.*) '96. Chemistry.	Lafayette, Ind.
Tether, Chester Higbee, *s*	Ph.B. (*Hamline u.*) '98. Chemistry	Red Wing, Minn.
Thiel, J. Jacob, *s*	A.B. (*Iowa c.*) '00. Romance, German	Ritzville, Wash.

NAME	DEGREE ; DEPT. OF STUDY	HOME ADDRESS
Thomas, Eva Katherine, *s*	A.B. (*u. of Nebraska*) '02. History	Lincoln, Neb.
Thomas, Hall Herbert, *s a w*	S.B. (*State u. of Iowa*) '00. Anatomy	Decorah, Ia.
Thomas, Roy Eckles, *a w*	S.B. (*Pomona c.*) '03. Anatomy, Physiology	Phoenix, Ariz.
Thompson, Christina, *s*	Ph.B. (*Otterbein u.*) '90. English	Jefferson, Ind.
Thompson, Effie Freeman, *s*	Ph.B. (*Boston u.*) '91. Semitic, Biblical Greek	Kingston, N. Y.
Thompson, John Giffin, *a w*	A.B. (*Wooster c.*) '00. History, Political Economy (*fel.*)	Kipling, O.
Thompson, Martha, *s*	A.B. (*Kansas State u.*) '92; D.B. (*Ibid.*) '95. Philosophy	Kansas City, Kan.
Thompson, Tecumseh, *s*	A.B. (*Hampden-Sidney c.*) '98; A.M. (*Ibid.*) '99. Latin	Lexington, Mo.
Thomsen, Ludwig, *w*	A.B. (*Oberlin c.*) '99. English	Cleveland, O.
Thorbus, Stella, *s*	A.B. (*Beloit c.*) '00. German, Latin	Sparta, Wis.
Thornberry, Charles Oscar, *s*	A.B. (*Butler c.*) '02; A.B. (*u. of Chicago*) '02. Philosophy	Graysville, Ind.
Thornhill, Ernest A., *s a w*	A.B. (*Harvard u.*) '99. Political Science, Political Economy	Normal
Tierney, Mary Elizabeth, *s a*	S.B. (*u. of Chicago*) '02. Mathematics	Chicago
Tilton, John Littlefield, *s*	A.B. (*Wesleyan u.*) '85; A.M. (*Ibid.*) '88; A.M. (*Harvard u.*) '95. Geology	Indianola, Ia.
Towle, Elizabeth Williams, *a w*	A.B. (*Bryn Mawr c.*) '98; A.M. (*Ibid.*) '99. Physiology, Botany	Richmond Hill, L. I.
Tozer, Alice Jane, *s*	Ph.B. (*Western Reserve u.*) '99. Latin	Cleveland, O.
Triplett, Grace, *s*	A.B. (*Indiana u.*) '01; A.M. (*Ibid.*) '03. Latin	Bloomington, Ind.
Trowbridge, Carl Hoyt, *s*	A.B. (*Harvard u.*) '01; A.M. (*Ibid.*) '02. Chemistry	Chicago
Tuck, John Andrew, *s*	A.B. (*Iowa State u.*) '83; Ph.B. (*Wesleyan u.*) '84; A.M. (*Ibid.*) '87. Mathematics	Chicago
Twiss, Edith Minot, *s*	A.B. (*Ohio State u.*) '95. Botany, Zoölogy	Columbus, O.
Tyree, Joseph Edgar, *a w*	A.B. (*u. of Oregon*) '03. Anatomy, Chemistry	Dillon, Mont.
Ullman, Berthold Louis, *s a w*	A.B. (*u. of Chicago*) '03. Latin, Greek	Chicago
Underhill, Anthony Lispenard, *s a w*	S.B. (*u. of Chicago*) '00. Mathematics	Bath, N. Y.
Unger, Mary Ann Hirsh, *s*	A.B. (*Bucknell c.*) '02; A.M. (*Ibid.*) '03. German	Danville, Pa.
Urch, Mary Elizabeth, *s*	A.B. (*Albion c.*) '93. Sociology	Ionia, Mich.
Vale, Grace, *s*	A.B. (*Dickinson c.*) '03. Latin, Greek	Carlisle, Pa.
Vance, Cecil Edgar, *s*	A.B. (*Wilmington c.*) '90; A.M. (*Ibid.*) '91. Greek, Latin	Toledo, O.
Van Doren, Mary, *a*	Ph.B. (*Syracuse u.*) '02. Romance	Phoenix, N. Y.
Van Hook, La Rue, *a w*	A.B. (*u. of Michigan*) '99. Greek (*fel.*)	Chicago
Van Meter, Florence Bigelow, *a w*	A.B. (*u. of Nebraska*) '95. German	Chicago
Van Tuyl, Charles Henry, *s w*	A.B. (*u. of Chicago*) '02. Philosophy	Hamilton, N. Y.
Vaughan, Lena, *s a w*	S.B. (*u. of Chicago*) '02. Mathematics, Physics	Liberty, Mo.
Vaughn, Charles Walter, *s*	A.B. (*u. of Alabama*) '00. German	Eufaula, Ala.
Venn, Theodore H., *a w*	A.B. (*Canisius c.*) '03. Anatomy, Physiology	Chicago
Vernier, Chester Garfield, *a w*	A.B. (*Butler c.*) '03. Political Science, History, Political Economy	Liberty, Ind.
Verry, William Leslie, *s a w*	A.B. (*u. of Chicago*) '02. Latin	Armington
Vickery, Martha Ellen, *w*	A.B. (*DePauw u.*) '87. Romance, History	Evansville, Ind.
Walker, Clara, *s*	S.B. (*u. of Chicago*) '01. Philosophy	Chicago
Wallace, Carl E., *s a w*	A.B. (*u. of Kansas*) '96; A.M. (*Ibid.*) '97. Latin, History	Hiawatha, Kan.
Wallace, Charles William, *s*	A.B. (*u. of Nebraska*) '98. English	Lincoln, Neb.
Wampler, Lydia Alice, *a w*	A.B. (*u. of Kansas*) '02. Latin	Webb City, Mo.
Ward, Henry Winfield, *s*	S.B. (*Hartsville c.*) '86; A.B. (*Western c.*) '88; A.M. (*Ibid.*) '91. English	Toledo, Ia.
Wareham, Manly Charles, *s*	Ph.B. (*Ottawa u.*) '98. German, Romance	Wichita, Kan.
Warren, Claire Louise, *a w*	A.B. (*Wellesley c.*) '95. Sociology	Rockford
Warren, David Cassius, *s*	S.B. (*Baylor u.*) '94; A.M. (*Ibid.*) '02. Physics	Waco, Tex.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Waterhouse, James Smartt, *s*	A.B. (*Cumberland u.*) '97; A.M. (*Ibid.*) '99. Chemistry	Chattanooga, Tenn.
Watkins, Lucy Rebecca, *a w*	Ph.B. (*u. of Chicago*) '03. English	Beaver, Pa.
Watson, Caroline May, *a w*	S.B. (*u. of Michigan*) '93. Botany, Geography	Sycamore
Weakley, Rowena, *a*	A.B. (*Wellesley c.*) '01. History	Shelbyville, Ky.
Webb, Adeline, *w*	A.B. (*Woman's c. of Baltimore*) '01. Sociology	Culleoka, Tenn.
Webb, Reuben David, *s*	S.B. (*Alabama Polytechnic inst.*) '97; S.M. (*Ibid.*) '98. English	Auburn, Ala.
Webb, Altona Heard, *s*	S.B. (*Southwestern Baptist u.*) '00. Mathematics	Carroll, Tenn.
Weber, Mary, *s*	Ph.B. (*u. of Chicago*) '00. English	Chicago
Webster, Edgar Huidekoper, *s*	A.M. (*Atlanta u.*) '97. Chemistry, Geology	Atlanta, Ga.
Weidensall, Clara Jane, *a w*	A.B. (*Vassar c.*) '03. Philosophy, English	Omaha, Neb.
Welker, Vincent Bernard, *a w*	S.B. (*u. of Notre Dame*) '01. Anatomy, Neurology	Gambier, O.
Weller, Annie Laura, *s*	S.B. (*u. of Chicago*) '02. Geology	Chicago
Wenrich, Calvin Nartzinger, *s*	A.B. *Franklin & Marshall c.*) '02. Physics, Mathematics	N. Heidelberg, Pa.
Wescott, Frank Howard, *a w*	A.B. (*u. of Chicago*) '97. Physics, Mathematics	Lacon
Wetzel, Reinhard August, *s*	S.B (*u. of Michigan*) '01. Philosophy, Education	Sauk Rapids, Minn.
Whaley, William Ellsworth, *s a w*	S.B. (*Kansas State Agricultural c.*) '86. Political Science	Manhattan, Kan.
Wheelock, Warren Overton, *s a w*	S.B. (*Louisiana State u.*) '00. Anatomy, Physiology	McComb City, Miss.
Whitaker, Hannah Belle, *s*	A.M. (*Cincinnati u.*) '01. Philosophy, English	Cincinnati, O.
White, John Boyd, *s*	A.B. (*Geneva c.*) '85; A.M. (*Ibid.*) '88. Greek, Latin	Beaver Falls, Pa.
Wickel, Susie Rebecca, *s*	S.B. (*Northwestern c.*) '96. English	Naperville
Wickersham, Lulu E., *s*	A.B. (*Kansas State u.*) '98. Latin, Romance	MacPherson, Kan.
Wight, Margaret, *s*	A.B. (*Lake Forest u.*) '01. English	Garrison, Ia.
Wilcoxon, Emily Marsh, *a*	(*Mt. Holyoke c.*) '86. German	Chicago
Wildman, Banks John, *s*	A.B. (*u. of Chicago*) '98. Latin	Chicago
Wiley, Winona, *s*	A.B. (*u. of Arkansas*) '99. German, Latin	Bentonville, Ark.
Williams, Alfred, *s*	A.B. (*Tarkio c.*) '02. Chemistry, Physics	Villisca, Ia.
Williams, Catherine Mary, *s a w*	A.B. (*Southwestern u.*) '02. Latin, Greek	Jacksonville
Williams, Florence Layton, *s*	A.B. (*u. of Colorado*) '99. Latin, Greek	Pueblo, Colo.
Wilson, Albert Edgar, *s*	A.B. (*Augustana c.*) '93; Ph.B. (*Illinois Wesleyan u.*). '96. Romance	Ogden, Utah
Wilson, Norman Richard, *s*	A.B. (*u. of Toronto*) '99. Mathematics	Coburg, Ont.
Wilson, Thomas Matheson, *s a w*	A.B. (*Toronto u.*) '96. Chemistry, Anatomy	Ontario, Can.
Wilson, William Brinkerhoff, *s*	S.B. (*Ottawa u.*) '95; S.M. (*Ibid.*) '98. Botany, Zoölogy	Russellville, Ky.
Winchester, George, *a w*	S.B. (*u. of Chicago*) '03. Mathematics, Physics	Elmore
Winter, John Arthur, *s*	A.B. (*u. of Michigan*) '02. Anatomy	Negaunee, Mich.
Wolcott, Mary Ellen, *s*	A.B. (*Princeton c., Ky.*) '75. Romance	Waco, Tex.
Woldt, Mae, *w*	S.B. (*u. of Michigan*) '97. Botany, Zoölogy	Indianapolis, Ind.
Wolf, Estella, s	Ph.B. (*Heidelberg u., Ohio*) '02. English	Tiffin, O.
Wood, Daisy Estelle, *a*	A.B. (*Cornell c.*) '98. Latin, German, English	Carson, Ia.
Wood, Leslie Henry, *a w*	A.B. (*u. of Michigan*) '91; A.M. (*u. of Chicago*) '02. Geology (*fel.*)	Owossa, Mich.
Wood, William Hugh, *s*	L.I. (*u. of Nashville*) '96; A.B. (*Ibid.*) '99. History, English	Covington, Tenn.
Woods, Erville Bartlett, *a w*	A.B. (*Beloit c.*) '01. Sociology (*fel.*), Political Economy	Racine, Wis.
Woodford, Burton Hadley, *s*	A.B. (*Hamilton c.*) '91; A.M. (*Ibid.*) '98. Latin	Tonkawa, Okla.
Woodroof, Martha Frances, *s*	A.B. (*Randolph-Macon Woman's c.*) '03. Latin, Greek	Lynchburg, Va.
Woofter, Thomas Jackson, *s*	LL.B. (*u. of W. Virginia*) '89; A.M. (*u. of Nashville*) '93. Philosophy	Milledgeville, Ga.
Woolfolk, Ada Swallow, *s*	A.B. (*Wellesley c.*) '91. English	Chicago
Wooley, Edwin Campbell, *s*	A.B. (*u. of Chicago*) '98. Political Science, Political Economy	Chicago
Workman, John Hunter, *s*	A.B. (*u. of Nashville*) '02, Philosophy, English	Southside, Tenn.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Wortman, Elmer Clark, *s*	A.B. (*Grove City c.*) '94; A.M. (*Princeton u.*) '02. Latin, Greek, English	Grove City, Pa.
Wreidt, Ernest August, *a*	Ph.B. (*Kalamazoo c.*) '00; A.B. (*u. of Chicago*) '03. Mathematics	Williamsport, Pa.
Wright, Charles Edward, *s*	S.B. (*Grove City c.*) '00. Mathematics, Physics	Armbrust, Pa.
Wyland, Elizabeth, *s*	A.B. (*Iowa c.*) '98. English, History.	Harlan, Ia.
Wylie, Robert Bradford, *a w*	S.B. (*Upper Iowa u.*) '97. Botany (*fel.*)	Sioux City, Ia.
Yoakum, Clarence Stone, *s*	S.B. (*Campbell u.*) '01; A.B. (*Ibid.*) '02; B.S.D. (*Ibid.*) '02. Philosophy, Education	Basehor, Kan.
Yoshioka, Ghen Ichiro, *s a w*	Ph.B. (*Northwestern u.*) '02. Sanskrit, Semitic	Okayama, Japan
Young, Bradley Woodruff, *s*	S.B. (*Kentucky State c.*) '99. English	Cincinnati, O.
Young, Grace Effie, *s*	A.B. (*Cotner u.*) '97. Romance, German	Bethany, Neb.
Young, May Sophie, *s*	A.B. (*Wellesley c.*) '95. Botany	Kansas City, Kan.
Youngdahl, Anton Cervenus, *s*	A.B. (*Augustana c.*) German	Chicago
Zeleny, Charles, *a w*	S.B. (*u. of Minnesota*) '98; S.M. (*Ibid.*) '01. Zoölogy (*fel.*)	Hutchinson, Minn.
Zoak, Ephraim Jacob, *s*	Ph.B. (*u. of Wooster*) '01. Sociology	Smithville, O.

MEN — 552. WOMEN — 330. TOTAL — 882.

SUMMARY.

	Men	Women	Total
Doctors of Philosophy pursuing Special Courses	20	..	20
Students admitted to Candidacy for Higher Degrees	72	36	108
Students not yet admitted to Candidacy for Higher Degrees	552	330	882
Total	644	366	1,010

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1906/07

The University of Chicago

FOUNDED BY JOHN D. ROCKEFELLER

CIRCULAR OF INFORMATION

FOR THE YEAR 1906-1907

NO. 2

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PUBLISHED FOUR TIMES A YEAR

THE UNIVERSITY OF CHICAGO

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VOL. VI MARCH, 1906 NO. 2

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CALENDAR FOR THE YEAR 1906–7

THE MEETINGS OF THE BOARD OF TRUSTEES ARE HELD ON THE SECOND TUESDAY OF EACH MONTH

1906

June 8	Friday	JUNIOR COLLEGE DAY
June 9	Saturday	ALUMNI DAY
June 11	Monday	CLASS DAY
June 12	Tuesday	THE SUMMER CONVOCATION
June 13	Wednesday	QUARTERLY EXAMINATIONS
June 14	Thursday	
June 15	Friday	
June 15	Friday	SPRING QUARTER ends
June 16	Saturday	SUMMER QUARTER begins
July 4	Wednesday	INDEPENDENCE DAY: a holiday
July 26	Thursday	EXAMINATIONS for the First Term of the Summer Quarter FIRST TERM of Summer Quarter ends
July 27	Friday	SECOND TERM of Summer Quarter begins
August 31	Friday	EXAMINATIONS for Second Term of the Summer Quarter THE AUTUMN CONVOCATION SECOND TERM of Summer Quarter ends
Oct. 1	Monday	AUTUMN QUARTER begins
Nov. 29	Thursday	THANKSGIVING DAY: a holiday
Dec. 18	Tuesday	THE WINTER CONVOCATION
Dec. 19	Wednesday	QUARTERLY EXAMINATIONS
Dec. 20	Thursday	
Dec. 21	Friday	
Dec. 21	Friday	AUTUMN QUARTER ends

1907

Jan. 2	Wednesday	WINTER QUARTER begins MATRICULATION and REGISTRATION of incoming students
Feb. 12	Tuesday	LINCOLN'S BIRTHDAY: a holiday
Feb. 22	Friday	WASHINGTON'S BIRTHDAY: a holiday THE ANNUAL CONTEST in Oratory
Mar. 17	Sunday	CONVOCATION SUNDAY
Mar. 18	Monday	SPRING MEETING of the *University Congregation*
Mar. 19	Tuesday	SPRING CONVOCATION
Mar. 20	Wednesday	QUARTERLY EXAMINATIONS
Mar. 21	Thursday	
Mar. 22	Friday	
Mar. 22	Friday	WINTER QUARTER ends
Mar. 23–31		QUARTERLY RECESS
April 1	Monday	SPRING QUARTER begins MATRICULATION and REGISTRATION of incoming students
May 30	Thursday	MEMORIAL DAY: a holiday
June 7	Friday	JUNIOR COLLEGE DAY
June 8	Saturday	ALUMNI DAY
June 10	Monday	CLASS DAY SUMMER MEETING of the *University Congregation*
June 11	Tuesday	THE SUMMER CONVOCATION
June 12	Wednesday	QUARTERLY EXAMINATIONS
June 13	Thursday	
June 14	Friday	
June 14	Friday	SPRING QUARTER ends

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1906/07

THE GRADUATE SCHOOLS

OFFICERS OF ADMINISTRATION

Acting President of the University, HARRY PRATT JUDSON, *Haskell Museum*, First Floor, Room 10.

The University Recorder, ALONZO KETCHAM PARKER, *Haskell Museum*, First Floor, Room 11.

The University Chaplain, CHARLES RICHMOND HENDERSON, *Cobb Lecture Hall*, First Floor.

The University Registrar, THOMAS WAKEFIELD GOODSPEED, *The Press Building*, First Floor.

The Secretary to the President, HENRY PORTER CHANDLER, *Haskell Museum*, First Floor, Room 10.

The Dean of the Faculties of Arts, Literature, and Science, HARRY PRATT JUDSON, *Haskell Museum*, First Floor, Room 10.

The Dean of the Graduate School of Arts and Literature, ALBION WOODBURY SMALL, *Haskell Museum*, First Floor, Room 14.

The Dean of the Ogden (Graduate) School of Science, ROLLIN D. SALISBURY, *Haskell Museum*, First Floor, Room 14.

The Dean of Women, MARION TALBOT, *Cobb Lecture Hall*, First Floor, Room 9.

THE FACULTY†

Members of the Faculties of Arts, Literature, and Science giving instruction in the Graduate Schools are the following:

*HARRY PRATT JUDSON, A.M., LL.D., *Acting President of the University; Professor of Comparative Politics and Diplomacy, and Head of the Department of Political Science; Dean of the Faculties of Arts, Literature, and Science.*

ERI BAKER HULBERT, D.D., LL.D., *Professor and Head of the Department of Church History; Dean of the Divinity School.*

THOMAS CHROWDER CHAMBERLIN, PH.D., LL.D., *Professor and Head of the Department of Geology; Director of Museums.*

CHARLES OTIS WHITMAN, PH.D., LL.D., *Professor and Head of the Department of Zoölogy; Curator of the Zoölogical Museum* (Wood's Holl).

RICHARD GREEN MOULTON, PH.D., *Professor of Literary Theory and Interpretation and Head of the Department of General Literature.*

JOHN MERLE COULTER, PH.D., *Professor and Head of the Department of Botany.*

WILLIAM GARDNER HALE, A.B., LL.D., *Professor and Head of the Department of Latin.*

CHARLES RICHMOND HENDERSON, PH.D., D.D., *Professor of Sociology in the Divinity School; University Chaplain.*

CHARLES CHANDLER, A.M., *Professor of Latin.*

EMIL GUSTAV HIRSCH, A.M., LL.D., LIT.D., D.D., *Professor of Rabbinical Literature and Philosophy.*

SAMUEL WENDELL WILLISTON, M.D., PH.D., *Professor and Head of the Department of Paleontology.*

JAMES LAURENCE LAUGHLIN, PH.D., *Professor and Head of the Department of Political Economy.*

ALBERT ABRAHAM MICHELSON, PH.D., SC.D., LL.D., *Professor and Head of the Department of Physics.*

NATHANIEL BUTLER, A.M., D.D., LL.D., *Professor of Education; Dean of the College of Education; Director of Co-operating Work.*

FRANK BIGELOW TARBELL, PH.D., *Professor of Classical Archæology.*

ERNEST DEWITT BURTON, D.D., *Professor and Head of the Department of Biblical and Patristic Greek.*

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*Acting President of the University from January 16, 1906.

†The names in each group, with the exception of the names of the President of the University and the Dean of the Faculties, are arranged in the order of collegiate seniority.

ALBION WOODBURY SMALL, Ph.D., LL.D., *Professor and Head of the Department of Sociology; Dean of the Graduate School of Arts and Literature.*
OSKAR BOLZA, Ph.D., *Professor of Mathematics.*
JOSEPH PAXSON IDDINGS, Ph.B., *Professor of Petrology.*
CHARLES REID BARNES, Ph.D., *Professor of Plant Physiology; Examiner for Colleges.*
PAUL SHOREY, Ph.D., *Professor and Head of the Department of Greek.*
BENJAMIN TERRY, Ph.D., LL.D., *Professor of Mediæval and English History.*
WILLIAM DARNALL MacCLINTOCK, A.M., *Professor of English Literature; Dean of the Junior College of Philosophy* (Women).
HENRY HERBERT DONALDSON, Ph.D., *Professor and Head of the Department of Neurology.*
IRA MAURICE PRICE, D.B., Ph.D., LL.D., *Professor of the Semitic Languages and Literatures.*
GEORGE BURMAN FOSTER, A.M., *Professor of the Philosophy of Religion.*
FLOYD RUSSELL MECHEM, A.M., *Professor of Law.*
MARION TALBOT, A.M., LL.D., *Professor of Household Administration; Dean of Women, and Head of Green House.*
ROLLIN D. SALISBURY, A.M., LL.D., *Professor of Geographic Geology and Head of the Department of Geography; Dean of the Odgen (Graduate) School of Science.*
GEORGE NEIL STEWART, A.M., Sc.D., M.D., D.P.H., *Professor and Head of the Department of Physiology.*
STARR WILLARD CUTTING, Ph.D., *Professor and Head of the Department of Germanic Languages and Literatures.*
ERNST FREUND, J.U.D., Ph.D., *Professor of Jurisprudence and Public Law.*
FRANK FROST ABBOTT, Ph.D., *Professor of Latin.*
JOHN MATTHEWS MANLY, Ph.D., *Professor and Head of the Department of English.*
ELIAKIM HASTINGS MOORE, Ph.D., LL.D., *Professor and Head of the Department of Mathematics.*
ROBERT FRANCIS HARPER, Ph.D., *Professor of the Semitic Languages and Literatures.*
LUDVIG HEKTOEN, M.D., *Professor and Head of the Department of Pathology and Bacteriology.*
JOHN ULRIC NEF, Ph.D., *Professor and Head of the Department of Chemistry.*
SHAILER MATHEWS, DD., *Professor of Systematic Theology; Junior Dean of the Divinity School.*
JAMES HAYDEN TUFTS, Ph.D., LL.D., *Professor and Head of the Department of Philosophy.*
JAMES RICHARD JEWETT, Ph.D., *Professor of the Arabic Language and Literature.*
EDWIN ERLE SPARKS, A.M., Ph.D., *Professor of American History; Curator of the Historical Museum; Dean of University College.*
GEORGE EDGAR VINCENT, Ph.D., *Professor of Sociology; Dean of the Junior Colleges.*
CARL DARLING BUCK, Ph.D., *Professor and Head of the Department of Sanskrit and Indo-European Comparative Philology.*
ALEXANDER SMITH, Ph.D., *Professor and Director of General and Physical Chemistry; Dean of the Junior College of Science* (Men).
JULIUS STIEGLITZ, Ph.D., *Professor of Chemistry.*
GEORGE LINCOLN HENDRICKSON, A.B., L.H.D., *Professor of Latin.*
EDWARD CAPPS, Ph.D., *Professor of Greek; Dean of the Junior College of Arts* (Men).
CHARLES ZUEBLIN, Ph.B., D.B., *Professor of Sociology.*
JAMES HENRY BREASTED, Ph.D., *Professor of Egyptology and Oriental History; Director of Haskell Oriental Museum.*
GEORGE WILLIAM MYERS, Ph.D., *Professor of the Teaching of Mathematics and Astronomy, School of Education.*
JAMES ROWLAND ANGELL, A.M., *Professor and Head of the Department of Psychology; Director of the Psychological Laboratory.*
ROBERT HERRICK, A.B., *Professor of English.*
ALBERT PRESCOTT MATHEWS, Ph.D., *Professor of Physiological Chemistry* (Wood's Holl).
CLARKE BUTLER WHITTIER, A.B., LL.B., *Professor of Law.*
JAMES PARKER HALL, A.B., LL.B., *Professor of Law; Dean of the Law School.*
JAMES MARK BALDWIN, Ph.D., LL.D., *Head of the Department of Philosophy and Psychology, Johns Hopkins University* (Summer Quarter, 1906).

JOHN MASON TYLER, *Professor of Biology, Amherst College; Lecturer on Education* (Summer Quarter, 1906).

EMLIN McCLAIN, A.M., LL.B., LL.D., *Judge of the Supreme Court of Iowa, late Chancellor of the College of Law, University of Iowa* (Summer Quarter, 1906).

GENEVA MISENER, Ph.D., *Professor of Greek and Latin, Rockford College* (Summer Quarter, 1906).

CHARLES KENNETH LEITH, Ph.D., *Professor of Geology, University of Wisconsin; Lecturer on Pre-Cambrian Geology* (Winter Quarter, 1907).

WALTER STANLEY HAINES, A.M., M.D., *Professorial Lecturer on Toxicology.*

GRAHAM TAYLOR, D.D., *Professorial Lecturer on Sociology.*

ERNEST R. DEWSNUP, A.M., *Professorial Lecturer on Railways, and Curator of the Museum of Commerce.*

DANIEL P. McMILLAN, Ph.D., *Director of the Child-Study Department, Chicago Public Schools* (Summer Quarter, 1906).

JAMES H. VAN SICKLE, A.M., *Superintendent of Schools, Baltimore, Md.* (Summer Quarter, 1906).

FRANCIS ADELBERT BLACKBURN, Ph.D., *Associate Professor of the English Language.*

HEINRICH MASCHKE, Ph.D., *Associate Professor of Mathematics.*

OLIVER JOSEPH THATCHER, Ph.D., *Associate Professor of Mediæval and English History.*

FRANK JUSTUS MILLER, Ph.D., *Associate Professor of Latin; Examiner for Secondary Schools.*

MYRA REYNOLDS, Ph.D., *Associate Professor of English Literature; Head of Nancy Foster House.*

KARL PIETSCH, Ph.D., *Associate Professor of Romance Philology.*

CLARENCE FASSETT CASTLE, Ph.D., *Associate Professor of Greek on the* Edward Olsen *Foundation.*

FREDERICK STARR, Ph.D., *Associate Professor of Anthropology; Curator of the Anthropological Section of Walker Museum.*

FRANCIS WAYLAND SHEPARDSON, Ph.D., *Associate Professor of American History; Dean of the Senior Colleges.*

GEORGE HERBERT MEAD, A.B., *Associate Professor of Philosophy.*

WILLIAM ISAAC THOMAS, Ph.D., *Associate Professor of Sociology; Superintendent of Departmental Libraries.*

FREDERIC IVES CARPENTER, Ph.D., *Associate Professor of English.*

WILLIAM BISHOP OWEN, Ph.D., *Associate Professor of Education; Dean of the University High School.*

THOMAS ATKINSON JENKINS, Ph.D., *Associate Professor of French Philology.*

EDWIN OAKES JORDAN, Ph.D., *Associate Professor of Bacteriology.*

FERDINAND SCHWILL, Ph.D., *Associate Professor of Modern History.*

ROBERT RUSSELL BENSLEY, A.B., M.B., *Associate Professor of Anatomy.*

ADDISON WEBSTER MOORE, Ph.D., *Associate Professor of Philosophy.*

FRANK RATTRAY LILLIE, Ph.D., *Associate Professor of Embryology; Assistant Curator of the Zoölogical Museum.*

ROBERT MORSS LOVETT, A.B., *Associate Professor of English; Dean of the Junior College of Literature* (Men).

HARRY AUGUSTUS BIGELOW, A.B., LL.B., *Associate Professor of Law.*

ALBERT HARRIS TOLMAN, Ph.D., *Assistant Professor of English Literature.*

PAUL OSKAR KERN, Ph.D., *Assistant Professor of Germanic Philology.*

THORSTEIN B. VEBLEN, Ph.D., *Assistant Professor of Political Economy.*

FRANCIS ASBURY WOOD, Ph.D., *Assistant Professor of Germanic Philology.*

ALICE PELOUBET NORTON, A.M., *Assistant Professor of Household Administration.*

HERBERT ELLSWORTH SLAUGHT, Ph.D., *Assistant Professor of Collegiate Mathematics.*

GEORGE CARTER HOWLAND, A.M., *Assistant Professor of Italian Philology.*

DAVID JUDSON LINGLE, Ph.D., *Assistant Professor of Physiology.*

HERBERT LOCKWOOD WILLETT, Ph.D., *Assistant Professor of the Semitic Languages and Literatures.*

KURT LAVES, Ph.D., *Assistant Professor of Astronomy.*

JACOB WILLIAM ALBERT YOUNG, Ph.D., *Assistant Professor of the Pedagogy of Mathematics.*

CLYDE WEBER VOTAW, D.B., Ph.D., *Assistant Professor of Biblical Greek.*
GEORGE AMOS DORSEY, Ph.D., *Assistant Professor of Anthropology.*
JOHN PAUL GOODE, Ph.D., *Assistant Professor of Geography.*
WILLIAM HILL, A.M., *Assistant Professor of Political Economy.*
CHARLES RIBORG MANN, Ph.D., *Assistant Professor of Physics.*
CHARLES MANNING CHILD, Ph.D., *Assistant Professor of Zoölogy.*
EDGAR JOHNSON GOODSPEED, Ph.D., *Assistant Professor of Biblical and Patristic Greek; Assistant Director of Haskell Oriental Museum.*
GORDON JENNINGS LAING, Ph.D., *Assistant Professor of Latin.*
ROBERT ANDREWS MILLIKAN, Ph.D., *Assistant Professor of Physics.*
JOHN CUMMINGS, Ph.D., *Assistant Professor of Political Economy.*
PHILIP SCHUYLER ALLEN, Ph.D., *Assistant Professor of German Literature.*
HERBERT NEWBY McCOY, Ph.D., *Assistant Professor of Physical Chemistry.*
LEONARD EUGENE DICKSON, Ph.D., *Assistant Professor of Mathematics.*
JAMES WESTFALL THOMPSON, Ph.D., *Assistant Professor of European History.*
WILLARD CLARK GORE, Ph.D., *Assistant Professor of Psychology.*
WILLIAM VAUGHN MOODY, A.M., *Assistant Professor of English.*
STUART WELLER, Ph.D., *Assistant Professor of Paleontologic Geology.*
FOREST RAY MOULTON, Ph.D., *Assistant Professor of Astronomy.*
CARL KINGSLEY, A.M., M.E., *Assistant Professor of Physics.*
CHARLES EDWARD MERRIAM, Ph.D., *Assistant Professor of Political Science.*
HERBERT JOSEPH DAVENPORT, Ph.D., *Assistant Professor of Political Economy; Head of North House.*
HARRY GIDEON WELLS, Ph.D., M.D., *Assistant Professor of Pathology.*
PRESTON KYES, A.M., M.D., *Assistant Professor of Anatomy.*
ANTON JULIUS CARLSON, Ph.D., *Assistant Professor of Physiology.*
ROBERT ELKIN NEIL DODGE, A.M., *Assistant Professor of English, University of Wisconsin* (Summer Quarter, 1906).
ELLEN CHURCHILL SEMPLE, Ph.D., *Assistant Professor* (Summer Quarter, 1906).
HARDIN CRAIG, Ph.D., *Preceptor in English, Princeton University* (Summer Quarter, 1906).
EDWARD OCTAVIUS SISSON, Ph.D., *Assistant Professor of Education, University of Illinois; Lecturer on Education* (Summer Quarter, 1906).
IRVING KING, Ph.D., *Pratt Institute; Lecturer on Education* (Summer Quarter, 1906).

MARTIN SCHÜTZE, Ph.D., *Instructor in German Literature.*
ERNEST JEAN DUBEDOUT, Dr. ès Lettres, *Instructor in French Literature.*
JOHN GORDON WILSON, A.M., M.B., *Instructor in Anatomy.*
CHARLES JOSEPH CHAMBERLAIN, A.M., Ph.D., *Instructor in Morphology and Cytology.*
EDWARD AMBROSE BECHTEL, Ph.D., *Instructor in Latin; Dean in University College.*
SOPHONISBA PRESTON BRECKINRIDGE, Ph.D., *Instructor in Household Administration; Assistant Dean of Women.*
EDWARD SCRIBNER AMES, Ph.D., *Instructor in Philosophy.*
ROBERT JOHN BONNER, Ph.D., *Instructor in Greek.*
LAUDER WILLIAM JONES, Ph.D., *Instructor in Analytical Chemistry.*
GEORGE ELMER SHAMBAUGH, M.D., *Instructor in Anatomy of Ear, Nose, and Throat.*
HENRY CHANDLER COWLES, Ph.D., *Instructor in Botany.*
GEORGE BREED ZUG, A.B., *Instructor in the History of Art.*
JOHN MERLIN POWIS SMITH, Ph.D., *Instructor in Semitic Languages and Literatures.*
ADOLPH CHARLES VON NOÉ, Ph.D., *Instructor in German Literature.*
JOSEPH PARKER WARREN, Ph.D., *Instructor in History.*
DANIEL GRAISBERRY REVELL, A.B., M.B., *Instructor in Anatomy.*
HOWARD TAYLOR RICKETTS, S.B., M.D., *Instructor in Pathology.*
BASIL COLEMAN HYATT HARVEY, A.B., M.B., *Instructor in Anatomy.*
NORMAN MacLEOD HARRIS, M.B., *Instructor in Bacteriology.*

BROWN PUSEY, M.D., *Instructor in the Pathology of the Eye.*
JOHN CHARLES HESSLER, PH.D., *Instructor in Chemistry.*
HENRY GORDON GALE, PH.D., *Instructor in Physics.*
JAMES WEBER LINN, A.B., *Instructor in English.*
WALLACE WALTER ATWOOD, PH.D., *Instructor in Physiography and General Geology.*
PERCY HOLMES BOYNTON, A.M., *Instructor in English.*
ROBERT MORRIS, LL.B., A.M., *Instructor in Political Economy.*
CHARLES CLAUDE GUTHRIE, M.D., *Instructor in Physiology.*
TREVOR ARNETT, A.B., *University Auditor.*
WILLIAM PIERCE GORSUCH, A.B., *Instructor in Public Speaking.*
ARTHUR CONSTANT LUNN, A.M., PH.D., *Instructor in Applied Mathematics.*
JOHN BROADUS WATSON, PH.D., *Instructor in Experimental Psychology.*
HENRY PORTER CHANDLER, A.B., *Instructor in English; Secretary to the President.*
CHARLES HENRY BEESON, A.B., *Instructor in Latin.*
WILLIAM LAWRENCE TOWER, S.B., *Instructor in Embryology.*
ROBERT FRANKLIN HOXIE, PH.D., *Instructor in Political Economy.*
FREDERICK LESLIE RANSOME, PH.D., *Lecturer on Ore Deposits* (Winter Quarter, 1907).

JOHN JACOB MYER, PH.D., *Associate in Sanskrit and Indo-European Comparative Philology.*
SAMUEL A. MATTHEWS, M.D., *Associate in Pharmacology.*
WILLIS B. HOLMES, PH.D., *Associate in Chemistry.*
JAMES FINCH ROYSTER, A.B., *Associate in English.*
CHARLES ANDREWS HUSTON, A.B., *Associate in English.*
SAMUEL NORTHRUP HARPER, A.B., *Associate in the Russian Language and Literature.*
ALBERT WOELFEL, M.D., *Associate in Physiology.*
EDITH ETHEL BARNARD, S.M., *Associate in Qualitative Analysis.*

WILFRED HAMILTON MANWARING, S.B., M.D., *Assistant in Pathology.*
WILLIAM BURNETT McCALLUM, PH.D., *Assistant in Botany.*
WILLIAM JESSE GOAD LAND, PH.D., *Assistant in Morphology.*
SHINKISHI HATAI, PH.D., *Assistant in Neurology.*
HEINRICH HASSELBRING, PH.D., *Assistant in Plant Pathology.*
HUGH McGUIGAN, S.B., *Assistant in Physiological Chemistry.*
HARLAN H. BARROWS, S.B., *Assistant in Geology and Geography.*
EDWIN GARVEY KIRK, S.B., *Assistant in Anatomy.*
THOMAS MATHESON WILSON, S.M., *Assistant in Physiology.*
VICTOR ERNEST SHELFORD, S.B., *Laboratory Assistant in Zoölogy.*
THOR ROTHSTEIN, A.B., M.D., *Research Assistant in Neuropathology.*
THOMAS McDOUGALL HILLS, PH.B., *Assistant in Geology* (Summer Quarter, 1906).

WILLIAM CLINTON ALDEN, PH.D., *Docent in Field Geology.*
EDMUND BUCKLEY, PH.D., *Docent in Comparative Religion* (Summer Quarter).

APPOINTMENTS TO FELLOWSHIPS FOR 1905–6

NOTE.—(1) Appointments for 1906–7 will be made at an early date. (2) The name of the appointee is followed by that of the institution at which the degree was obtained, the Department in which the appointment is made, and the state in which the appointee resides. (3) In each case in which more than three appointments are made for one Department, either there is a special Fellowship for that Department or the stipend for some appointees is reduced, or there is no stipend.

BABCOCK, EARLE BROWNELL, Ph.B., the University of Chicago, Romance Languages, Illinois.

BEDFORD, SCOTT ELIAS WILLIAM, A.M., Baker University, Sociology, Kansas.

BEIFUS, JOSEPH, A.B., the University of Chicago, Germanic, Illinois.

BENSON, ROBERT LOUIS, A.M., the University of Michigan, Pathology, Michigan.

BERRY, LILLIAN GAY, A.M., Indiana University, Latin, Indiana.

BESTOR, ARTHUR EUGENE, A.B., the University of Chicago, History, Illinois.

BINGHAM, WALTER VANDYKE, A.B., Beloit College, Psychology, Iowa.

BIRKHOFF, GEORGE DAVID, A.B., Harvard University, Mathematics, Illinois.

BLOUNT, MARY PUTNAM, S.B., the University of Michigan, Zoölogy, Illinois.

BRETZ, JULIAN PLEASANT, A.B., William Jewell College, History, Missouri.

BRIDGMAN, DONALD ELLIOTT, A.B., Hamline University, Political Economy, Minnesota.

BURNS, LESLIE RUSH, S.B., the University of Wisconsin, Physiology, Wisconsin.

BURWELL, LESLIE MOULTHROP, A.B., D.B., the University of Chicago, Biblical Greek, Illinois.

CAMPBELL, COLIN DONALD, D.B., Princeton Seminary, New Testament, Illinois.

CAPPS, STEPHEN REID, JR., A.B., the University of Chicago, Geology, Illinois.

CARMAN, JOEL ERNEST, S.B., Simpson College, Geology, Iowa.

CASTRO, MATILDE, A.B., the University of Chicago, Philosophy, Illinois.

CATCHING, NANCY HIGGINBOTHAM, A.B., Women's College of Baltimore, Romance Languages, Georgia.

CHILDS, ALPHA GARRET WRIGHT, A.B., A.M., M.D., Hahnemann Medical College, Chemistry, Indiana.

CLARK, WAYLAND BLAIR, S.M., Denison University, Chemistry, Ohio.

CLIFFORD, OLIVER CHARLES, A.B., Oberlin College, Physics, Illinois.

COFFIN, JOSEPH HERSCHEL, A.M., Penn College, Psychology, Iowa.

COVINGTON, DAVID ANDERSON, A.M., Wake Forest College, Greek, North Carolina.

CROCKER, WILLIAM, A.M., the University of Illinois, Botany, Illinois.

DAVIDSON, MARGARET, Ph.B., the University of Chicago, English, Illinois.

DAVIS, EDITH AMY ROBERTA, A.B., the University of New Brunswick, Greek, New Brunswick, Canada.

DAY, EDNA DAISY, S.M., the University of Michigan, Household Administration, Illinois.

EMERSON, FREDERICK VALENTINE, A.B., Colgate University, Geography, Pennsylvania.

FISCHER, AUGUSTUS RADCLIFFE, Ph.B., the University of Chicago, History, Illinois.

FLAMMER, ERNEST, S.B., the University of California, Physics, California.

FOX, JOHN SHARPLESS, A.B., Haverford College, History, Pennsylvania.

GILCHRIST, LACHLAN, A.B., the University of Toronto, Physics, Ontario, Canada.

GOETTSCH, EMIL, S.B., the University of Chicago, Anatomy, Iowa.

GOETTSCH, HENRY MAX, S.B., S.M., the State University of Iowa, Chemistry, Iowa.

GRIFFIN, FRANK LOXLEY, S.B., the University of Chicago, Astronomy, Kansas.

GRIMSON, GUDMUNDUR, A.B., the University of North Dakota, Political Economy, North Dakota.

GRONOW, HANS ERNST, Ph.B., the University of Chicago, German, Wisconsin.

GURNEY, LAWRENCE EMERY, A.B., Colby College, Physics, Massachusetts.

HALL, GERTRUDE ELLA, A.B., Cornell University, German, Missouri.

HAMILTON, FRANCES MARION, A.M., the University of Indiana, Psychology, Indiana.

HATTON, AUGUSTUS RAYMOND, Ph.B., Franklin College, Political Science, Indiana.

HAYES, JOSEPH WILLIAM, A.B., Amherst College, Psychology, New York.

HEINEMANN, PAUL GUSTAV, S.B., the University of Chicago, Bacteriology, Illinois.

HILPERT, WILLIS STOSE, S.B., the University of Chicago, Chemistry, Illinois.

HOPKINS, ALBERT LAFAYETTE, A.B., the University of Chicago, Political Economy, Mississippi.

HORNE, CHARLES ELLSWORTH, A.B., A.M., Harvard University, Semitic, Pennsylvania.

Ingold, Louis, A.M., the University of Missouri, Mathematics, Missouri.

Jordan, Frank Craig, A.M., Marietta College, Astronomy, Colorado.

Kirk, Edwin Garvey, S.B., the University of Chicago, Anatomy, Ohio.

Krehbiel, Edward Benjamin, A.B., the State University of Kansas, History, Illinois.

Lawrie, James Wright, S.B., the University of Chicago, Chemistry, Illinois.

Longley, William Raymond, A.B., Butler College, Mathematics, Indiana.

Manwaring, Wilfred Hamilton, S.B.,the University of Michigan, Pathology, Minnesota.

Matson, George Charlton, A.M., Cornell University, Geology, Nebraska.

Merritt, Albert Newton, A.M., the University of Chicago, Political Economy, Iowa.

Mode, Rowland Hector, A.M., the University of Toronto, Semitic, Ontario, Canada.

Moodie, Roy Lee, A.B., the University of Kansas, Paleontology, Kansas.

Macintosh, Douglas Clyde, A.B., McMaster University, Systematic Theology, Ontario, Canada.

McKnight, Robert James George, A.B., Geneva College, Semitics, Pennsylvania.

McLauchlan, John, A.M., McMaster University, Church History, Ontario, Canada.

McLeod, Andrew Fridley, A.B., the University of Chicago, Chemistry, Illinois.

Nelson, Roy Batchelder, A.B., the University of Chicago, Sanskrit, Wisconsin.

Pattison, Hortense Roberts, A.M., the University of Colorado, Greek, Tennessee.

Patton, Eugene Bryan, A.B., Washington University, Political Economy, Tennessee.

Pike, Frank Henry, A.B., Indiana University, Physiology, Illinois.

Quaife, Milo Milton, Ph.B., Iowa College, History, Iowa.

Randall, Ethel Claire, Ph. B., the University of Chicago, English, Illinois.

Ranson, Stephen Walter, S.M., the University of Chicago, Neurology, Minnesota.

Rees, Kelley, A.B., Leland Stanford Junior University, Greek, Tennessee.

Richardson, Florence Ella, A.B., the University of Nebraska, Education, Nebraska.

Riley, Edgar Francis, A.B., Baker University, Philosophy, Kansas.

Ritchie, John Woodside, A.B., Maryville College, Botany, Illinois.

Royster, James Finch, A.B., Wake Forest College, English, North Carolina.

Sage, Evan Taylor, A.M., the University of Nebraska, Latin, Nebraska.

Sanford, Frederick Warren, A.B., Illinois College, Latin, Illinois.

Schlesinger, Hermann Irving, S.B., the University of Chicago, Chemistry, Wisconsin.

Shaw, Eugene Wesley, S.B., Ohio Wesleyan University, Geology, Ohio.

Shull, Charles Albert, S.B., the University of Chicago, Zoölogy, Ohio.

Smith, Henry, A.M., the University of Chicago, History, Illinois.

Spencer, Matthew Lyle, A.M., Northwestern University, English, Kentucky.

Stephens, Thomas Calderwood, M.D., College of Physicians and Surgeons, Kansas City, Zoölogy, Kansas.

Sundwall, John, Ph.B., S.B., the University of Chicago, Anatomy, Utah.

Swanson, William Walker, A.B., Queen's University, Political Economy, Ontario, Canada.

Taylor, Harry Leroy, D.B., Union Theological Seminary, Systematic Theology, New York.

Terry, Benjamin Taylor, A.M., M.D., Vanderbilt University, Pathology, Alabama.

Tyree, Joseph Edgar, A.B., the University of Oregon, Pathology, Montana.

Ullman, Berthold Louis, A.B., the University of Chicago, Latin, Illinois.

Vass, James Leland, Jr., A.M., Furman University, Greek, South Carolina.

Vichert, John Frederick, D.B., McMaster University, Church History, Ontario, Canada.

Weidensall, Clara Jean, A.B., Vassar College, Psychology, Nebraska.

Woodhead, Howard, A.B., the University of Chicago, Sociology, Illinois.

Woods, Erville Bartlett, A.B., Beloit College, Sociology, Wisconsin.

Wright, William Kelley, A.B., the University of Chicago, Philosophy, Illinois.

Yamanouchi, Shigeo, S.M., Tokyo Teachers' College, Botany, Tokyo, Japan.

Yoshioka, Ghen-ichiro, Ph.B., Northwestern University, Sanskrit, Okoyama, Japan.

Youngman, Anna Prichitt, Ph.B., the University of Chicago, Political Economy, Kentucky.

INTRODUCTORY

I. DEPARTMENTS OF INSTRUCTION

For purposes of instruction the University is organized into departments. The following departments are included within the Faculties of Arts, Literature, and Science, and give instruction in the Graduate Schools.

I. Philosophy.
I*A*. Psychology.
II. Political Economy.
III. Political Science.
IV. History.
V. The History of Art.
VI. Sociology and Anthropology.
VI*A*. Household Administration.
VII. Comparative Religion.
VIII. The Semitic Languages and Literatures.
IX. Biblical and Patristic Greek.
X. Sanskrit and Indo-European Comparative Philology.
XI. The Greek Language and Literature.
XII. The Latin Language and Literature.
XIII. The Romance Languages and Literatures.
XIV. The Germanic Languages and Literatures.
XV. The English Language and Literature, and Rhetoric.
XVI. General Literature.
XVII. Mathematics.
XVIII. Astronomy and Astrophysics.
XIX. Physics.
XX. Chemistry.
XXI. Geology.
XXI*A*. Geography.
XXII. Zoölogy.
XXIII. Anatomy.
XXIV. Physiology (including Physiological Chemistry and Pharmacology).
XXV. Neurology.
XXVI. Paleontology.
XXVII. Botany.
XXVIII. Pathology and Bacteriology.

THE UNIVERSITY YEAR

The university year is divided into four Quarters of about twelve weeks each. The Autumn, Winter, and Spring Quarters begin on the first day of October, January, and April, respectively, and the Summer Quarter on the day next following the last day of the Spring Quarter. The Summer Quarter is divided into two equal Terms.

At the close of the Autumn and Winter Quarters there is a recess of about a week. At the close of the Spring Quarter there is no recess. At the close of the Summer Quarter there is a recess of about four weeks.

Students are admitted at the opening of any one of the four Quarters, and at the opening of the Second Term of the Summer Quarter.

Degrees are conferred at the close of each Quarter at the Quarterly Convocation.

II. THE GRADUATE SCHOOLS

ORGANIZATION AND ADMISSION

Two Graduate Schools are now organized: the Graduate School of Arts and Literature, and the Ogden (Graduate) School of Science.

Admission to the Graduate Schools of the University will be granted:

1. To those who have been graduated from the Colleges of the University of Chicago.

2. To those who are graduates of other institutions of good standing, and who hold Bachelor's degrees corresponding to those conferred by the University.

Applications for admission, in the case of students not graduates of the University, should be accompanied by testimonials as to character and scholarship. Whenever possible, such testimonials should take the form of diplomas, written or printed theses, or satisfactory evidence in some other form of the student's fitness for graduate work.

It should be noted that admission to a Graduate School does not necessarily admit to candidacy for a higher degree.

COURSES OF INSTRUCTION

A course of instruction which meets daily (i.e., four or five days a week) throughout the Quarter is called a *Major*. A course which meets daily throughout a Term is called a *Minor*. A seminar usually counts as a *Major*. The following abbreviations are used: M = Minor course = a single course for six weeks. DM = Double Minor course = a double course two hours daily for six weeks. Mj = Major course = a single course for twelve weeks. DMj = Double Major course = a double course for twelve weeks.

Courses announced for the Senior Colleges do not usually count directly toward a higher degree. In some cases they are included among the announcements in this *Circular of Information*, because they may be desirable prerequisites of other courses.

DEGREES

Graduate study may lead to a Master's or to a Doctor's degree under the conditions specified below.

I. *The Master's degrees.* — Three degrees are conferred, viz.: *Master of Arts*, *Master of Science*, and *Master of Philosophy*.

1. *Candidacy.* — Any member of the Graduate Schools who has been in attendance one Quarter or more, and whose undergraduate course is equivalent to that required for a corresponding Bachelor's degree in the University of Chicago,* may, on recommendation by the Department or Departments in which he is working, be enrolled by vote of the Faculties of the Graduate Schools, as a candidate for a Master's degree.

2. *Requirements.* — Students thus accepted as candidates will be given a Master's degree on fulfilment of the following requirements:

   a) At least three Quarters' residence at the University.

   b) A satisfactory examination on the work taken for the degree.

   c) Either of the following sets of particular requirements:

   A. *The specialist degree.*—(1) At least seven Majors of resident graduate work, all falling in one Department; (2) the presentation of a satisfactory dissertation on a subject approved by the Department; (3) the delivery of five printed or typewritten copies, including one bound copy, of this dissertation to the University Librarian.

   B. *The non-specialist degree.*—Nine Majors of resident graduate work distributed among three Departments, three in each, and not more than six in any one group of Departments. The particular courses to be offered for the degree are accepted in advance by the Heads of the Departments concerned. No dissertation is required.

   The following are the recognized groups:

   (1) Philosophy, Psychology, and Education.
   (2) Political Economy, Political Science, History, Sociology.
   (3) The History of Art, Sanskrit and Indo-European Comparative Philology, Greek, Latin.
   (4) Comparative Religion, Semitic Languages and Literatures, Biblical and Patristic Greek.
   (5) Romance, Germanic, English, General Literature.
   (6) Mathematics, Astronomy, Physics, Chemistry.
   (7) Geology, Geography.
   (8) Zoölogy, Anatomy, Physiology, Neurology, Paleontology, Botany, Pathology and Bacteriology.

II. *The degree of Doctor of Philosophy.*

1. *Candidacy.* — Any member of the Graduate Schools who has been in attendance one Quarter or more, whose undergraduate course is equivalent* to that required for a Bachelor's degree in the University of Chicago,† whose thesis subject has been accepted by the principal Department, and who has a reading knowledge of French and German (which must be certified by the Heads of those Depart-

*Attention is particularly called to the fact that the term "equivalent" in this connection refers to quantity only. It does not affect the question of the specific Master's degree (Arts, Science, or Philosophy), to which a given student's work would lead.

†In case the candidate did not obtain his Bachelor's degree at the University of Chicago, he will present to the Dean on blanks furnished for the purpose a detailed statement of his undergraduate work. The Dean cannot always report upon these statements during the opening week of the Quarter.

ments), may, on recommendation by the principal Department in which he wishes to take his degree, be enrolled, by vote of the Faculties of the Graduate Schools, as a candidate for the Doctor's degree.

2. *Requirements.* — Students thus accepted as candidates will be given the Doctor's degree, on the fulfilment of the following requirements:

a) At least three years of resident work at the University, in pursuance of an accepted course of study. The course in question must include one principal, and either one or two secondary subjects, each acceptable to the Head of the Department concerned, and to Head of the Department in which the principal work is done.

b) A satisfactory final examination upon the work done in preparation for the degree.

c) The presentation of a satisfactory printed thesis upon a subject which has been approved by the Head of the Department in which the principal part of the candidate's work has been done.

d) A good command of literary expression and such knowledge of subjects considered fundamental as may be prescribed by the several Departments.

e) Candidates for the degree of Doctor of Philosophy may not take more than two-thirds of their work in one Department, and may not take work which is to count toward the degree in more than three Departments.

3. *Thesis.*—Each student is required to prepare a thesis upon some question connected with his principal subject. This production must be scholarly in character, exhaustive in its subject-matter, and must constitute an actual contribution to knowledge.

The subject must be submitted for approval to the Head of the Department at least twelve months before the date of the final examination; the thesis itself must be submitted in written form to the Head of the Department three months before the date of the final examination, and, after criticism, in typewritten form, six weeks before the date of the final examination; after acceptance, *one hundred* printed copies of the same must be deposited in the Library within six months of the date of the final examination. Accepted theses become the property of the University.

The candidate will be admitted to final examination only when the thesis is complete and ready for the printer.* The degree will be recommended only on a written certificate of the Department concerned in the Doctorate, that the thesis is ready for the printer, and on the written evidence of some responsible journal or publisher that the required number of printed copies will be furnished to the University within a reasonable time.

4. *Final examination.*—After admission to candidacy, the candidate may present himself for examination in his secondary subject or subjects as soon as he has fulfilled the requirements of the Department or Departments concerned.

The candidate for the degree of Doctor of Philosophy (for admission to candidacy, see Clause 1, Art. II, p. 11) may present himself for the examination in his principal subject, or in both principal and secondary subjects if the examination in the latter has not been taken in advance, (1) as soon as he has fulfilled the requirements of the Department or Departments concerned, and (2) after he has presented to the Dean (*a*) a written certificate of the principal Department concerned that the thesis is ready for the printer, and (*b*) the written evidence of some responsible journal or publisher that the required number of printed copies will be furnished the University within a reasonable time. The examination will be conducted by a committee consisting of the members of the principal Department concerned, an appointed representative of the secondary Department, or a representative of each of them if there are two, of any other members of the secondary Department who may choose to attend, and a member of some other Department appointed by the President.

The candidate is required to prepare a typewritten or printed brief of his work, including an analysis of the thesis, and to file copies of the same with the Recorder for distribution to the committee one week before the time set for the examination. In case of an examination in the secondary department, the statement should include the work in this department, and the statement for the final examination should include the work of both departments.

REMARK.—The degree of *Doctor of Philosophy* is given, not on the basis of the completion of a certain amount of time spent upon a specified programme, but as the recognition and mark of high attainments and ability in the candidate's chosen province, shown first by the production of a thesis evincing the power of independent investigation and forming an actual contribution to existing knowledge; and, secondly, by the passing

* By "complete" is meant that every chapter or considerable subdivision of the document shall be worked out with such fulness that it shall be practicable to make all the necessary corrections and additions on the proof.

of examinations covering the general field of the candidate's subjects, with more minuteness in the case of the principal subject, with less minuteness in the case of the secondary subject or subjects.

5. *Non-resident work.*—After being admitted, the student will be permitted to substitute to the extent of not more than nine Majors non-resident work for resident work provided that (*a*) the non-resident work shall be performed under the direction of a professor or instructor of the University Extension Division of the University, and shall be a full equivalent in amount and character of that for which it is substituted; and (*b*) a satisfactory examination shall be passed upon the same at the University.

6. *Work done in other universities.* — Graduate work done in another university will be accepted as equivalent to resident work in the University of Chicago, provided the institution in which the work was done is of high standing, and sufficient evidence is furnished that the particular work was satisfactorily performed.

Work done in other universities will not ordinarily count for more than one and one-half years of resident work in the University; but the degree of Doctor of Philosophy may, in exceptional cases, be granted after one year of residence.

NOTE. — In order to avoid misunderstandings, candidates for higher degrees should consult with their Deans concerning all technical requirements for such degrees, before application is made for admission to candidacy.

FELLOWSHIPS AND SCHOLARSHIPS

1. *The University Fellowships.*— The University appropriates annually the amount of twenty thousand dollars ($20,000) for Fellowships in the Graduate Schools. These Fellowships are awarded by the Trustees, upon the recommendation of the President and the nomination of Departments, to Graduate students who desire to pursue advanced work in some special line. About seventy Fellowships, ranging in value from $120, or the tuition fees of a student for three Quarters, to $520, are assigned each year.

2. *Applications for Fellowships.*— Applications for Fellowships should be addressed to the President of the University, *and should be in his hands on or before March 1.*

3. *Appointments to Fellowships.*

   a) *Date.*—The annual assignment of Fellowships is usually made about the first of April. A Fellowship is available for any three of the four Quarters of the year, beginning in June following the date of appointment.

   b) *Attainments required.*— The candidate must have attained proficiency in some Department. In general, he should have spent at least one year in resident study since receiving his Bachelor's degree. In making the appointment, special weight is given to theses indicating the candidate's ability to conduct original investigation.

4. *Special Fellowships.*—In addition to the regular University Fellowships mentioned above, there are special Fellowships offered by individuals. These vary somewhat in number and amount from year to year. At present they are as follows:

   a) The *William A. and Fanny C. Talcott Fellowships and Scholarships.*—In 1896 William A. Talcott, of Rockford, Ill., endowed four Fellowships and Scholarships, two of which bear his name and two the name of his widow, Fanny C. Talcott. They are intended primarily for the benefit of graduates of Rockford College, but, in the absence of such beneficiaries, may be assigned to others. They pay the tuition fees of those appointed to them.

   b) The *Bucknell Fellowship*, yielding $400, offered by Mr. Charles Miller, of Franklin, Pa., is open to graduates of Bucknell University. The appointment to this Fellowship is made by the faculty of Bucknell University.

   c) The *Joseph B. Loewenthal Fellowship in Chemistry*, endowed by Mr. Berthold Loewenthal, of Chicago, as a memorial of his son, Joseph B. Loewenthal. It yields about $420 to the incumbent annually appointed, and is awarded on the nomination of the Department of Chemistry and the recommendation of the President of the University.

5. *Graduate Scholarships.*—The Scholarships available for students in the Graduate Schools are as follows:

   a) *Scholarships for excellence in the work of the Senior Colleges.*—The University offers twenty Scholarships for excellence in the work of the Senior Colleges. The Scholarships are assigned annually, in the Spring Quarter, on the nomination of the Board of the Senior Colleges. Each Department of the University, with the approval of the Committee on Scholarships, has the

privilege of naming a student who is for that year the honor student of the Senior Colleges in that Department, and to this student there is given a Graduate Scholarship yielding in each case a sum equal to the University tuition fees for three Quarters ($120), provided the student continues his studies in the Graduate Schools.

b) The *William A. and Fanny C. Talcott Fellowships and Scholarships.*—See Fellowships.

c) *Affiliation Scholarships.*—Under the conditions of affiliation with Kalamazoo College, Des Moines College, Butler College, and John B. Stetson University, the three students who stand highest in scholarship and general excellence in the graduating class of each institution are awarded Scholarships covering the University tuition fees for three Quarters ($120).

d) *Scholarships for Public Speaking.*—Three Scholarships, each yielding the amount of forty dollars ($40), or the tuition fee for a Quarter, are awarded the winners in the preliminary contests in Public Speaking. In case the winner in a preliminary contest has previously secured a Scholarship in this way in the Graduate Schools, the award is made to the second in rank.

e) *Scholarships for officers.*—Forty Scholarships, each yielding the tuition fees for three Quarters ($120), are assigned annually to members of the Faculties, or wives of members, who may desire to take courses of instruction in the University.

f) *Teachers in Affiliated Schools.*—Under the conditions of affiliation, teachers in the various Affiliated Schools of the University are assigned vouchers covering the tuition fee. The conditions under which these vouchers may be obtained will be mailed on application.

g) *General Scholarships.*—Forty Scholarships, each yielding the tuition fees for three Quarters ($120), are assigned annually to students in the Graduate Schools on the recommendation of the Deans of these schools.

INCIDENTAL PRIVILEGES

1. *Physical Culture.*—Work in the Department of Physical Culture is open to students of the Graduate Schools.

2. *Chapel assembly.*—A weekly chapel assembly for the students of the Graduate Schools is held on Thursdays, at 10:30 A. M. Attendance is optional.

LIBRARIES, LABORATORIES, AND MUSEUMS

THE LIBRARIES

The General Library is for the use of students in all Departments of the University. Students who have matriculated and paid their library fee may take at one time three volumes from the General Library. These may be kept two weeks, and at the end of that time, if desired, may be renewed for two weeks.

The approximate estimate of the books at present in the library is 372,816.

All the Branch and Departmental Libraries are catalogued and classified. Most of the collections in the General Library are now permanently arranged.

The General Library is open on every week day from 8:30 A. M. to 5:30 P. M. The Library receives 1,287 current periodical publications, including the transactions and proceedings of learned societies.

Many of the Departmental Libraries are open in the evening.

THE LABORATORIES

The Kent Chemical Laboratory and the Ryerson Physical Laboratory contain rooms for special research, small laboratories for work of investigation, large laboratories for general instruction, lecture-rooms, classrooms, library, museum, and offices.

The Hull Biological Laboratories is a group of four buildings devoted to the study of the Anatomical, Botanical, Physiological, and Zoölogical Sciences. Medical instruction is given in three of these laboratories.

THE MUSEUMS

The Walker Museum contains the collections of fossils of the Department of Geology, and various mineralogical, anthropological, paleontological, and geological collections, donated to or deposited in the Museum. It contains also the lecture-rooms and libraries of the Department of Geology and of the Department of Anthropology.

The Haskell Oriental Museum contains a series of

large and well-equipped rooms for the installation and exhibition of museum material. The Biblical, the Comparative Religion, the Assyrian, and the Egyptian collections occupy the second floor. A large assembly room and administration offices are on the first floor and a library on the third floor.

THE OBSERVATORY

The Yerkes Astronomical Observatory is situated near Williams Bay, Wisconsin. Its principal instrument is a refracting telescope of forty inches aperture.

IV. GENERAL INFORMATION

ROUTINE OF ENTRANCE

Application should be addressed to THE UNIVERSITY OF CHICAGO, Chicago, Ill. When presenting himself for admission to the University, the student should bring his diploma, and present it, with any letters of introduction, at the office of the Deans of the Graduate Schools. Detailed directions will be furnished at the Deans' office as to the mode of matriculation and registration for courses of instruction desired.

FEES FOR MATRICULATION, TUITION, ETC.

1. *Matriculation fee.*—The matriculation fee is $5, and is required of every student on entrance to the University.

2. *Tuition fee.*

   a) The tuition fee is $40 per Quarter (including the library and incidental fee, $5) for regular work (three Majors or their equivalent); there is no reduction to those taking only two Majors.

   b) A reduction is made in case of students taking only one Major (or equivalent), one-half the full tuition fee being charged.

   c) *All tuition and laboratory fees are due and payable on or before the* FIRST *day of* EACH *Quarter. All fees are payable to the Registrar, Cobb Lecture Hall, Room 7A.*

3. *Laboratory fees.*—Students in Chemistry pay a laboratory fee of $5 for a Major course, and $2.50 for a Minor course. Students in Biology pay $2.50 for a Major course, and $1.25 for a Minor course, except for courses in Gross Anatomy, in which the fee is $5 for a Major course. Ten dollars ($10) is the maximum charge for laboratory work in any one Department (M and DMj courses will be charged in proportion). In addition to the regular laboratory fee, students in Chemistry will procure a coupon ticket, entitling them to $5 worth of laboratory material. Students in Biology will procure a coupon ticket, entitling them to $2.50 worth of laboratory material. Unused portions will be redeemed.

4. *Graduation fee.*—The graduation fee, including diploma, is $10.

ROOMS, BOARD, AND GENERAL EXPENSES

Nine dormitories have thus far been erected in the Quadrangles. Two of these are reserved for the students of the Divinity School, and four are for women. A University House is organized in each dormitory; each House has a Head, appointed by the President of the University, and a House Committee, elected by the members; also a House Counselor, selected from the Faculties of the University by the members of the House. The membership of the House is determined by election, and each House is self-governing under the general control of the University Council.

The cost of rooms in the dormitories is from $20 to $74 per Quarter of twelve weeks. This includes heat, light, and care. Each hall for women has separate dining-hall and parlors. The cost of table board in these halls is $42 a Quarter.

All applications for rooms, or for information concerning rooms and board within or without the Quadrangles, should be made to the Registrar.

For further details, see special circulars as to rooms and board, which will be sent on application.

The following table will furnish an estimate of the annual expenses for thirty-six weeks of a student in the University, residing within the Quadrangles:

	Lowest	Average	Liberal
University bill, tuition	$120.00	$120.00	$120.00
Rent and care of room	60.00	105.00	225.00
Board	100.00	126.00	225.00
Laundry	15.00	25.00	35.00
Textbooks and stationery	10.00	20.00	50.00
Total	$305.00	$396.00	$655.00

It is believed that students who find it necessary to reduce expenses below the lowest of these estimates can do so. Rooms outside the Quadrangles, furnished, with heat, light, and care, may be obtained at from $1.25 a week upward, the $1.25 rate being easily secured where two students room together. Many places offer room and board from $4.50 upward. The Men's Commons, Hutchinson Hall, offers to students meals *à la carte.* Lexington Commons for women offers meals *à la carte* during the Autumn, Winter, and Spring Quarters. During the Summer Quarter the Men's Commons will be open to both men and women. A list of approved boarding places outside the Quadrangles is kept on file at the Information Office, Cobb Lecture Hall, and information regarding them may there be obtained.

V. THE UNIVERSITY EXTENSION DIVISION

Work for non-resident students is offered by the University through the University Extension Division.

The Lecture-Study Department offers courses of systematic lecture studies by members of the University Faculty, in communities where any committee or organization will undertake the responsibility of local management.

The *Correspondence-Study Department* offers to individual students systematic courses of study in secondary and college subjects under the direct supervision and guidance of a University instructor. For further information consult the *Circulars of Information of the University Extension Division.*

VI. UNIVERSITY COLLEGE

University College is the college conducted by the University of Chicago in the center of the city. It was originally designed chiefly for the benefit of active teachers of Chicago and vicinity. This service the College still performs, though its courses are open to all persons upon conditions similar to those in the colleges and the graduate schools on the Quadrangles. The courses are given at the Fine Arts Building, 203 Michigan Avenue, in the afternoon, evening, and on Saturday. The courses offered are not only for undergraduate students, but also for graduate students who will receive credit for their work in like manner as undergraduate students.

THE SCHOOLS AND COLLEGES OF ARTS, LITERATURE, AND SCIENCE

I. THE DEPARTMENT OF PHILOSOPHY AND EDUCATION

OFFICERS OF INSTRUCTION

JAMES HAYDEN TUFTS, Ph.D., LL.D., *Professor and Head of the Department of Philosophy.*
NATHANIEL BUTLER, A.M., D.D., LL.D., *Professor of Education.*
GEORGE HERBERT MEAD, A.B., *Associate Professor of Philosophy.*
ADDISON WEBSTER MOORE, Ph.D., *Associate Professor of Philosophy.*
WILLIAM BISHOP OWEN, Ph.D., *Associate Professor of Education.*
WILLARD CLARK GORE, Ph.D., *Assistant Professor of Psychology.*
EDWARD SCRIBNER AMES, Ph.D., *Instructor in Philosophy.*
JOHN MASON TYLER, Professor of Biology, Amherst College, *Lecturer on Education* (Summer Quarter, 1906).
JAMES MARK BALDWIN, Ph.D., LL.D., Head of the Department of Philosophy and Psychology, Johns Hopkins University, *Lecturer on Psychology and Philosophy* (Summer Quarter, 1906).
JAMES H. VAN SICKLE, A.M., Superintendent of Schools, Baltimore, Md., *Lecturer on Education* (Summer Quarter, 1906).
EDWARD OCTAVIUS SISSON, Ph.D., University of Illinois, *Lecturer on Education* (Summer Quarter, 1906).
DANIEL P. MacMILLAN, Ph.D., Director of Child-Study in Chicago Public Schools, *Lecturer on Education* (Summer Quarter, 1906).
IRVING KING, Ph.D., Pratt Institute, *Lecturer on Education* (Summer Quarter, 1906.

INSTRUCTORS IN OTHER DEPARTMENTS OFFERING INSTRUCTION IN THIS DEPARTMENT

PAUL SHOREY, Ph.D., *Professor and Head of the Department of the Greek Language and Literature.*
JAMES ROWLAND ANGELL, A.M., *Professor and Head of the Department of Psychology.*

FELLOWS, 1905-6

MATILDE CASTRO, A.B.
WILLIAM KELLY WRIGHT, A.B.
EDGAR FRANCIS RILEY, A.B.
FLORENCE ELLA RICHARDSON, A.B.

INTRODUCTORY

The primary aim of the Department is to give training in the methods of philosophic inquiry, reflection, and statement, and thus to equip competent teachers and investigators in the various branches. The Department aims to train specialists, but only upon the basis of an adequate general knowledge. Candidates for the Doctor's degree are required to select for special attention, and to make some particular investigation in one of the four fields of Logic and Metaphysics, History of Philosophy, Æsthetics, Ethics; but this specialization presupposes sufficient knowledge of the other branches, and also of Psychology, to enable one to direct, and if necessary to undertake, teaching in them.

In the second place, it is believed that, in the existing state of life, Philosophy has much of value for those who do not intend to specialize in it. It is doubtful if there ever was a time when Philosophy lay so close to the various sciences, social, historical, and biological, on one side, and to the requirements of practical life on the other, as at present. The Department desires in the organization and arrangement of courses to make due recognition of this fact.

Students in other Departments who are expecting to take Philosophy as a subsidiary subject for the Master's or Doctor's degree should see the Head of the Department at once after coming into University

residence, and arrange for this work in advance. Nine Majors are required. The equivalents of the elementary courses in Psychology, Ethics, and Logic are required as antecedents. Work will be assigned according as the principal work is in literary, scientific, or historical and social lines.

A student presenting himself for the Doctor's degree with Philosophy as the chief subject will be required to have the equivalents of Courses 4–6 in the History of Philosophy, and at least three courses in Psychology; the latter may be either experimental or general, or a suitable combination of the two. He may further specialize, as already indicated, in the History of Philosophy, Ethics, Æsthetics, and Logic and Metaphysics.

The attention of students is particularly called to the University regulation that the examination in French and German must be passed before one can be regularly enrolled as a candidate for a degree, at least one year previous to taking the final examination. It is important that the student should secure the ability to read these subjects early in his university course. To postpone any work necessary for this examination till late in the course is to fail in securing the advantages intended by the regulation. Accordingly, the Department will insist upon conformity with the requirement.

In case the antecedent work in elementary Psychology, Logic, and Ethics, and the History of Philosophy does not come up to the proper standard, the candidate for an advanced degree will be required to take the undergraduate work in these subjects. As a rule, students coming from institutions where advanced work in Philosophy is not provided will find it advantageous to do some review work here.

The libraries of the Departments of Philosophy and Psychology contain the more important works on Logic, Psychology, the History of Philosophy, Æsthetics, Ethics, and sets of the philosophical journals.

It is the primary aim of the work in Education to train competent specialists for the broad and scientific treatment of educational problems. The courses provided for this end fall in the main under three heads: (1) courses in psychology and related work; (2) courses in educational history and theory; (3) Courses in the best methods of teaching the various branches. Additional courses under (1) and (3) will be found under their respective Departments.

It is believed that any profitable study of educational theory and method presupposes a thorough grounding in psychological principles; that a scientific treatment of educational problems demands as a prerequisite a familiarity with the methods and results of the modern study of the development of intelligence; that an appreciation of the ultimate ends of education requires that discipline in the estimate of values and ideals which is afforded by ethics; and that a broad outlook is best gained by an acquaintance with the history of human thought. It is expected, therefore, that the courses in educational theory be preceded or accompanied by the Introductory Courses in psychology and ethics, and that advanced work in this Department be accompanied by further work in the lines indicated above. In this connection attention is also called to the related courses in Biology, Physiology, Neurology, and Social Science.

The instructors in the department edit the *School Review*, a journal of secondary education, issued ten times a year, and published by the University of Chicago Press; subscription price, $1.50 per year.

After the completion of the required work (Courses 1, 2, or 3), students wishing to do further work in philosophy should take Courses 4–6, or 7, 9, 10. Candidates for honors in the Senior Colleges should take from four to six courses, selected from Courses 3–10, 33, 43.

COURSES OF INSTRUCTION

Courses in the History of Philosophy

4, 5. **History of Philosophy.**—These courses are designed (1) as a survey of the history of thought, considered in its relations to the sciences, to literature, and to social and political conditions; and (2) as an introduction to Philosophy through a more careful study of some of the most important systems. Windelband's *History of Philosophy*, with lectures, and readings from Plato, Aristotle, Descartes, Locke, Berkeley, Hume, and Kant. For the Senior Colleges and Graduate Schools. 2Mj. Autumn Quarter; 11:00
Dr. ———
Winter Quarter; 11:00
Dr. Ames

5A, 5B. **History of Modern Philosophy.**—The second part of the above course. First Term, Descartes to Berkeley; Second Term, Hume and Kant. Summer Quarter; 8:00
Associate Professor Moore, and Dr. ———

6. **Movements of Thought in the Eighteenth and Nineteenth Centuries.**—This is a non-technical course, for Senior College and Graduate students. It forms the conclusion of Course 5, but may be taken by those who have had Courses 1 and 2. Mj. Spring Quarter; 11:00
ASSOCIATE PROFESSOR MEAD

9. **History of Science.**—This course will present scientific theories of different periods from the beginning of Greek science up to modern times. It will attempt to show, first, what views reflective thinkers held of the physical world, and secondly, what methods of scientific investigation and influence they made use of. While it will be impossible to enter into considerable detail in covering so large a field, definite pictures of the scientific conceptions of the physical universe in the past will be drawn. The evolution of scientific method will be followed as closely as possible. The course will be in some sense parallel to the History of Philosophy, giving a survey of the development of human thought in the western world, but from the point of view of the physical sciences.
Mj. Autumn Quarter; 8:30
ASSOCIATE PROFESSOR MEAD

10. **The Social and Ethical Content of Modern Philosophy.**—A survey of the more important social and ethical philosophy of the modern period, considered in its relation on the one hand to the development of individuality in the various spheres of political, religious, and social life, and on the other hand, in its relation to the philosophic thought of the period. Designed to follow Sociology Course 72. Open to students who have had Course 5 or Sociology 72.
[Not to be given in 1906–7.]

13. **Philosophy of Aristotle.**—The course will present Aristotle's Philosophy as a whole. Effort will be made to do justice to the conceptions of the period when the whole of science and learning was brought under philosophy, and the effect of this attitude upon Aristotle's thought will be brought out. In particular the relation of Aristotle's Logic to the Dialectic that preceded him will be studied, and contrasted with the method of his scientific speculation. Finally the *Metaphysics* will be considered both as the achievement of Greek thought, and as the appearance of a new philosophic discipline.
[Not to be given in 1906–7.]

17. **Renaissance Philosophy.**—Hobbes, Descartes, Spinoza, and Leibnitz. For Graduate students.
Mj
[Not to be given in 1906–7.]

19. **British Philosophy, from Locke to Mill.**—Both the ethical and the epistemological developments will be considered. For Graduate students. Mj. Autumn Quarter
PROFESSOR TUFTS
[Not to be given in 1906–7.]

21A, 21B. **Kant's "Critique of Pure Reason."**—Study of the origins and conditions out of which the *Critique* arose, and the character of Kant's answer to the epistemological problem of his time, with especial reference to the answering positions of the English school. Covering the *Critique*, in Müller's translation, up to the "Transcendental Dialectic."

Discussion of Kant's theory of the Reason, the Antinomies, the Cosmological Ideas, and the position of the *Critique of Pure Reason* upon the problems of God, Immortality and the Freedom of the Will. With reading from the *Critique* from "Transcendental Dialectic" on.
First and Second Terms, Summer Quarter, 8:00
ASSOCIATE PROFESSOR MEAD

22, 23. **The Philosophy of Kant.**—A critical discussion of Kant's Philosophy as a system, and its relations to previous and subsequent thought. The *Critique of Pure Reason* will be studied with Müller's translation and Adickes' text in the Autumn Quarter; the practical philosophy and teleology, in the Winter Quarter.
2Mj. Autumn and Winter Quarters, 1906–7
PROFESSOR TUFTS

26. **Herbert Spencer's Philosophy.**—An interpretative review of Spencer's characteristic doctrines as contained in his *First Principles* and parts of his *Psychology*, with possibly a brief notice also of his ethical and social theory.
[Not to be given in 1906–7.]
ASSOCIATE PROFESSOR MOORE

29. **Indian and Chinese Philosophy.**—The lectures in this course will attempt to present, first, the main positions at which reflective thought arrived among the Indian and Chinese peoples, and, second, as far as possible, what were the conditions which led to these reflective processes.
Mj. Spring Quarter
ASSOCIATE PROFESSOR MEAD

Plato: "The Republic."—(See XI, 29.)
PROFESSOR SHOREY

Stoicism and Epicureanism in their Relation to Ancient Life and Literature.—(See XI, 66, 67, 68.)
3Mj. Autumn, Winter, and Spring Quarters.
PROFESSOR SHOREY

COURSES IN LOGIC AND METAPHYSICS

31. **Philosophy in Relation to Science; Ancient Thought.**—The ancient scientific conceptions of the physical universe will be presented in their relation to the philosophic thought of the time. The science of the time of Aristotle will be the basis for discussion, and in particular the interconnection between the scientific methods and results and Aristotle's metaphysics will be studied. ASSOCIATE PROFESSOR MEAD
[Not to be given in 1906–7.]

32. **Philosophy in Relation to Science; Modern Thought.**—The discussion of the parallel development of psychological theory and scientific method in the Middle Ages will be followed by a statement of the intellectual situation out of which Galileo's treatment of dynamics arose. The development of the mathematical theory from Descartes and Leibnitz to Newton will be presented from the point of view of its relation to parallel philosophic development. Finally, the present scientific conception of the physical world will be discussed in its bearing upon current logical and psychological theory.
Mj. Spring Quarter
ASSOCIATE PROFESSOR MEAD
[Not to be given in 1906–7.]

33. **The Classification and Interrelations of the Sciences.**—A discussion of modern attempts in scientific methodology. For Senior College and Graduate students. Mj. Autumn Quarter
ASSOCIATE PROFESSOR MEAD
[Not to be given in 1906–7.]

34. **The Development of Logical Doctrine.**—Hobbes to Hegel. A study of the growth of the function, structure, and criterion of knowledge through the English School and Kant. For Senior College and Graduate students.
Autumn Quarter, 1907
ASSOCIATE PROFESSOR MOORE

36. **Hegel's Logic.**—This course presupposes a fundamental study of Kant, and leads up to the study of modern logical theory. Wallace's translation of Hegel's *Logik* will be used in the class, and the lectures will follow the text as closely as possible. The aim of the course will be to enable the student to follow out as sympathetically as possible the structure of Hegel's thought, and recognize beyond this the problems that have appeared with Hegel's conception of Logic, and the limitations of Hegel's method in dealing with them.
Mj. Winter Quarter, 1908: 11:00
ASSOCIATE PROFESSOR MEAD

35. **The Theory of Logic.**—The course as a whole is designed to advance a critical and constructive theory of the logical functions: judgment, conception, and inference. They will be discussed in relation to one another, and the relation of thought to experience and reality will be considered. Texts: Lotze, Mill, and *Studies in Logical Theory*.
Mj. Winter Quarter; Mon., Thurs., 4:00-6:00
ASSOCIATE PROFESSOR MOORE

37. **Modern Metaphysics.** — Historical and constructive. A critical study of modern conceptions of Reality, with special attention to current views as exhibited in such works as Bradley's *Appearance and Reality*, Royce's *World and the Individual*, Ward's *Naturalism and Agnosticism*, Taylor's *Metaphysics*. For Graduate students.
Mj. Spring Quarter
ASSOCIATE PROFESSOR MOORE

IA. 36. **Genetic Logic: Theory of Knowledge.**—Lectures on the development of cognition from sense to logical and æsthetic functions, showing the each of the great modes of knowledge. Postulates and canons of genetic method. For Senior College and Graduate students.
Summer Quarter, 1906, Tues. to Fri; 9:00
PROFESSOR BALDWIN

IA. 36A. **Genetic Logic: Theory of Reality.**—Seminary course dealing with the comparative meanings of realty issuing from the several modes of cognition and establishing their relative validity for philosophy. For Graduate students.
Summer Quarter, 1906, Mon., 9:00–11:00
PROFESSOR BALDWIN

IA, 35. **The Relations of Psychology to Physiology.**—An examination partly historical and partly logical, of the relations of psychology to the philosophical disciplines. For advanced Graduates. Mj. Spring Quarter
PROFESSOR ANGELL

COURSES IN ETHICS

40. **Evolution of Morality.**—A study of the origins of Morality in primitive tribal life, including the objective factors of group control, custom, political, family, and religious institutions, and subjectively the development of a standard, and of responsibility. For Graduate students.
Mj. Autumn Quarter; 1907
PROFESSOR TUFTS

41, 42. **Seminar.—The Fundamental Ethical Concepts.** A historical and critical study of the leading ethical concepts: Good, Obligation, Nature and Natural Law, Right, Conscience, Self-Denial, Love, Justice, Moral Sense, Sympathy, Utility, Freedom, the Kingdom of Ends, Value, Self-Realization. The course will thus embrace a history of ethical theory, but without rigid adhesion to chronological order where this would prevent a continuous study of a given concept.
2Mj. Winter and Spring Quarters; 1907–8
PROFESSOR TUFTS

43. **History of Political Ethics.**—This course will embrace the topics included historically under the Philosophy of the State and the Philosophy of Law, together with a study of the ethical conceptions which have grown out of social and political organization. The political theories of Plato and Aristotle, the Roman and Renaissance conceptions of law of nature, the eighteenth-century conception of natural rights, the ethical concepts of justice and rights, and the recent opposing socialistic and individualistic theories will be considered.
Mj. Spring Quarter; 1908
PROFESSOR TUFTS

44. **The Psychology of Ethics.**—This course will discuss the part played by the psychic processes of the individual, such as impulse, desire, effort, deliberation, and choice in the constitution of moral conduct. For Graduate students.
Mj. Autumn Quarter
PROFESSOR TUFTS

45. **Social Ethics.**—This course will discuss the ethical problems involved in social organization and progress, especially the adjustment to each other of the ethics of community life and individual freedom. The elements of the Philosophy of Law and of the State will be presented. For Graduate students.
Mj. Winter Quarter
PROFESSOR TUFTS

47. **Recent Ethical Theory.**—The important problems and tendencies of recent ethical theory will receive comparative treatment. Lectures, discussions, and papers. Mj. Summer Quarter; 1907
PROFESSOR TUFTS

COURSES IN ÆSTHETICS

7. **Æsthetics.**—An introduction to the history and theory of æsthetics. The two aspects of the æsthetic field, viz.: appreciation, or criticism, and artistic production will be analyzed, and their leading categories studied with reference both to their psychological origin, and to their historic relations in the development of art. For the Senior Colleges.
Prerequisite: *Introductory Psychology.*
[Not to be given in 1906–7]

COURSES IN THE HISTORY OF EDUCATION

NOTE.—See also Course 81.

60. **History of Education.**—Ancient times to Charlemagne.
Mj. Autumn Quarter. For the Senior Colleges; 8:30.
ASSOCIATE PROFESSOR OWEN

61. **History of Education.**—Charlemagne to modern times.
Mj. Winter Quarter. For the Senior Colleges; 8:30.
ASSOCIATE PROFESSOR OWEN

62. **Historical Survey of Modern Education.**—The course will be introduced by a brief discussion of the indebtedness of modern educational theory and practice to the ideas and methods of the ancients, particularly the Greeks and Romans. The chief emphasis will be placed upon the rise of democracy in education, and the resulting changes in the aims, content, and methods of education. The course will aim especially to provide such information and insight as will enable the student to continue his study of the history of education most profitably. Monroe's *Textbook in the History of Education* will be used as a handbook.
M. Second Term, Summer Quarter; 1:30
DR. SISSON

63. **Herbart's Doctrines of Education.**—A study of the ethical and psychological bases of education, followed by an examination of the essential elements in Herbart's pedagogy. Comparison of Herbart's doctrines with other important systems. The chief reading will be Herbart's *Text-*

book of Psychology and his *General Pedagogy*, with constant references to later writers, both supplementary and corrective, particularly De Garmo, Dewey, Felkin, Rein, etc. Endeavor will be made throughout to emphasize matters of permanent value and pass lightly over what is superseded, indicating the doctrines which have superseded it; this will be particularly true with reference to the discussion of the feelings and the will. For Graduate Students.
M. Second Term, Summer Quarter; 2:30
DR. SISSON

64. **Education in the United States.**—A study of the development of Education in the United States, with special emphasis on social conditions, outside influences, important leaders, present day tendencies and theories. For Graduate Students; open to Senior College students with two Majors in Education. Mj. Spring Quarter
ASSOCIATE PROFESSOR OWEN

67, 68. **Seminar in the History of Education.**
2Mj. Winter and Spring Quarters
ASSOCIATE PROFESSOR OWEN

COURSES IN EDUCATIONAL PSYCHOLOGY AND MENTAL DEVELOPMENT

The Physical Basis of Education.—A course of open lectures on the Laws of Growth and Development. First Term, Summer Quarter
PROFESSOR TYLER

70. **Psychology Applied to Education.**—The discussion of psychological problems which have reference to education. Spring Quarter; 8:30
ASSISTANT PROFESSOR GORE

71. **Educational Psychology.**—This course will be developed with special reference to the dynamic conception of the mind, mental growth as a function of sensori-motor co-ordination: attention, interest, apperception, habit, etc., discussed from this point of view. The recent literature of experimental psychology, as it bears upon educational problems, will be examined.
M. Second Term, Summer Quarter
DR. KING

72. **Genetic Psychology.**—This course is planned to serve as an introduction to the study of the distinct modes of functioning in the human mind, considered from the genetic point of view. The emphasis will be placed throughout upon the origin, the life-history, the usefulness of the well-differentiated mental processes and bodily acts, and the attempt will be made to outline the conditions, both natural and artificial, which effect changes in these several mental attitudes.
M. First Term, Summer Quarter; 2:30
DR. MACMILLAN

73. **Genetic Psychology.** — Problems, methods, and data in the psychological growth of children and youth. Mj. Autumn Quarter; 8:30
ASSISTANT PROFESSOR GORE
Prerequisite: *Elementary Psychology.*

74. **Special Problems in Genetic Psychology.**—Designed for those who are prepared to undertake investigations involving observation and study of school children. The course may be taken only after conference with the instructor. For graduate students. Mj. Winter Quarter
ASSISTANT PROFESSOR GORE

75. **Individual Psychology.**—Research and observation with respect to types of psychological temperament, capacity, etc., with special reference to methods of study and classification of children. Mj. Winter Quarter; 8:30
ASSISTANT PROFESSOR GORE
(Not to be given in 1906-7.)

76. **Child-Study.**—This course is designed to familiarize students with the problems of Child-Study, to evaluate the methods of investigation, and to interpret the results of observation and experimental work. It will embrace such vital topics as the theory of mental measurements, the description and characterization of children's traits, the place and importance of practical Child-Study in a school system, and the like. For Seniors and Graduates.
M. First Term, Summer Quarter; 1:30
DR. MACMILLAN
Prerequisite: *Course in General Psychology.*

78. **The Psychology of the Educational Process.**—A critical and constructive study of selected problems bearing upon educational practice. Feeling, will, habit, attention, apperception, and similar topics will be discussed. For Graduate students. Mj. Winter Quarter, 9:30
PROFESSOR ANGELL

COURSES IN ADMINISTRATIVE AND SOCIAL ASPECTS OF EDUCATION

80. **Problems in Secondary Education.**—Present day ideals in education. The moral element in education. Adolescence. The high school curriculum. Arts and technology. Electives. The

extension of the high-school course by the addition of two years. The certificate and entrance examinations systems. The social organization of the high school. Athletics. The school and the community. On sending boys and girls to college.

M. First Term, Summer Quarter
Also as Mj. Spring Quarter
PROFESSOR BUTLER

81. **The Schools of Germany, England, and the United States.**—The course traces the historical development of existing systems of elementary and secondary education as expressions of the religious, social, and industrial ideals that from time to time have dominated the people, with especial emphasis upon the influence on public education, of ecclesiasticism, humanism, realism, and nationalism. The marks which these schools have in common, as well as those which differentiate them, are noted, and a study is made of present tendencies.

M. First Term, Summer Quarter, 9:30
Also as Mj. Autumn Quarter
PROFESSOR BUTLER

82. **The School and the Community.**—The course discusses education as training for social efficiency; the school as one of several agencies for such training; the function of the school as affected by modern social conditions; the formation of social and moral habits; the social organization of the school; the "many-sided interest;" industrial training in relation to social ideals and habits; education as discovery of the individual; co-operation between the school and the community: in civic improvement, in the use of libraries, in parents' associations. The schools of Chicago will be studied, and reports made regarding schools elsewhere, with which students are acquainted. Mj. Spring Quarter; 9:30
PROFESSOR BUTLER

83. **Problems of Supervision and Administration in Public Schools.**—Course designed for superintendents, principals, and supervisors.

M. Second Term, Summer Quarter; 9:00
MR. VAN SICKLE

84. **Problems of Curriculum and Method in Elementary and High Schools.**—For teachers, supervisors, and principals.

M. Second Term, Summer Quarter; 10:30
MR. VAN SICKLE

85. **The Teaching of Science in the Secondary School.**—Psychological study of the attitude of the child in the secondary school toward his surrounding physical environment; the necessity of the child's getting a hold upon this world as a whole before the separate sciences can be taken up; the method by which the problems of these different sciences can be brought out; the scope and import of the study of these sciences during the high school period, in reference both to the child's immediate development, and his later study and attitude toward them; the fundamental importance of science in giving the high school child his method and point of view.

Mj. Autumn Quarter
ASSOCIATE PROFESSOR MEAD

Psychological Seminary (See IA, 38).—Methods of instruction in psychology: text-books, lectures, etc.; ideals in the organization of courses in colleges, normal schools, and institutions of secondary grade. Mon., 1:30–3:30

Mj. First Term, Summer Quarter; Psy. Lab.
PROFESSOR ANGELL

COURSES IN EDUCATIONAL THEORY

NOTE. – See also Course 85.

90. **Philosophy of Education.**— The point of view will be that of the gradual socialization of the child, and the part which education plays in this. Both formal and informal education will be considered, especially in their relation to each other. On the one side the development of the child will be considered as the justification for a psychological theory of education, while on the other side the demands of the society into which the child is entering, will suggest the sociological theory. The inadequacies of each will be indicated, and the necessity of replacing them by a social conception of education which can recognize both the child and society at once. The chief features of present school practice and theory will be criticized from this standpoint.

M. First Term, Summer Quarter; 10:30
ASSOCIATE PROFESSOR MEAD

91. **The Principles of Education.**— A consideration of education as a social process: its nature; the facts involved; the problem of heredity, social and biological; the problem of the end or ideal; the importance of informal and unconscious factors; the ethical problem, etc.

M. Second Term, Summer Quarter; 8:00
DR. KING

92. **Philosophic Bases of Modern Education.**—A comparative study of the philosophic and educational development beginning with Bacon and Comenius, with special stress upon the Kant-Herbart period. The reading for the course will be largely from the writings of the authors discussed, supplemented by Windelband's *History of Philosophy* aud Monroe's *History of Education.* The course presupposes elementary psychology and a general acquaintance with the history of modern philosophy and education.

Mj. Spring Quarter
ASSOCIATE PROFESSOR MOORE

93. **Principles of Education.**—The aim, meaning, methods, and contents of education are considered from the point of view of human capacities and values, and their evolution in interaction with natural and social environment. Individual development and social progress, the intellectualistic and the voluntaristic views of mind and character, current theories of discipline, interest, culture, correlation or coördination of subjects are analyzed.

Mj. Spring Quarter, 1906; Summer Quarter, 1907
PROFESSOR TUFTS

IA. THE DEPARTMENT OF PSYCHOLOGY

OFFICERS OF INSTRUCTION

A. INSTRUCTORS ATTACHED TO THE DEPARTMENT OF PSYCHOLOGY

JAMES ROWLAND ANGELL, A.M., *Professor and Head of the Department of Psychology; Director of the Psychological Laboratory.*
JOHN BROADUS WATSON, PH.D., *Instructor in Experimental Psychology.*

B. INSTRUCTORS IN OTHER DEPARTMENTS OFFERING INSTRUCTION IN THIS DEPARTMENT

GEORGE HERBERT MEAD, A.B., *Associate Professor of Philosophy.*
WILLIAM ISAAC THOMAS, PH.D., *Associate Professor of Sociology.*
ADDISON WEBSTER MOORE, PH.D., *Associate Professor of Philosophy.*
WILLARD CLARK GORE, PH.D., *Assistant Professor of Psychology.*
EDWARD SCRIBNER AMES, PH.D., *Instructor in Philosophy.*

JAMES MARK BALDWIN, PH.D., SC.D., LL.D., *Professor of Philosophy and Psychology, Johns Hopkins University* (Summer Quarter, 1906).

FELLOWS, 1905-6

WALTER VAN DYCK BINGHAM, A.B. CLARA JEAN WEIDENSALL, A.B.
JOSEPH WILLIAM HAYES, A.B.

INTRODUCTORY

The courses in the Department are planned with three purposes in view: (1) to meet the needs of undergraduate students who desire an intelligent acquaintance with the general principles of Psychology and their bearing upon the larger social and scientific interests of modern life; (2) to afford adequate discipline for students who wish to employ Psychology as a basis for higher work in philosophy, education, and the social sciences; (3) to furnish a sound and symmetrical training for teachers, investigators, and specialists in the various branches of psychological science.

The Fellowships at the disposal of the Department are intended for persons who give promise of distinction in research work.

Candidates for the Doctor's degree in Psychology will be required in all cases to have the equivalents of Courses 2–5 in the Department of Philosophy. When the principal work falls within the lines of Experimental Psychology, or Comparative Psychology, the candidate will be expected to have the equivalents of the elementary courses in Neurology and either Physiology or Zoölogy.

Students in other Departments, who expect to make Psychology a secondary subject for any of the higher degrees should consult with the Head of the Department, immediately after entering upon residence. The amount of work required in such cases depends upon the previous training of the candidate. From six to nine Majors are commonly necessary.

Students are required to pass an examination in French and German before they can be formally enrolled as candidates for the Doctorate.

The libraries of the Departments of Philosophy and Psychology contain the more important works on logic, psychology, the history of philosophy, æsthetics, ethics, and sets of the philosophical and psychological journals.

The meetings of the Journal Club are designed to keep students in touch with the best contemporary work.

The Psychological Laboratory occupies a building of its own at 5704 Ellis Avenue. The extensive collection of apparatus is primarily designed to afford thorough training in accepted methods of investigation. New apparatus required for research work is promptly supplied.

COURSES OF INSTRUCTION

Introductory Courses

Course 1 in the Department of Psychology is required for the Bachelor's degree of all students in the Colleges of Art, Literature and Science. It may be taken by students in the Junior Colleges who have completed twelve Majors of work.

1. **Psychology.**—For the Senior Colleges. Repeated every Quarter. Mj. Every Quarter.

Summer Quarter; 9:00
Dr. Watson

Autumn Quarter, 3 sections: 8:30, 11:00, 2:00
Dr. Watson

Winter Quarter: 8:30

Spring Quarter: 9:30

Note.—This course is a prerequisite for all other courses in the Department.

2, 3, 4. **Experimental Psychology.**—Training Course. This course is designed to afford students preliminary training for independent research and for teaching this branch. It is distinctly a laboratory course. Students specializing in Psychology are advised to take this course immediately after the completion of Course 1. The course may be entered at the beginning of any of the three Quarters. The work is, however, closely connected, and the Department strongly recommends adherence to the regular sequence, as indicated in the course numbers.

3Mj. Autumn, Winter, and Spring Quarters

Lectures: 2:00–3:00.
Laboratory work: 2:00–4:00.
Dr. Watson

Note.—Lectures and Laboratory work occur on different days.

Course 2: Will be given to the study of visual and auditory sensations, introduced by a general presentation of psychological methods.
Autumn Quarter
Dr. Watson

Course 3: Will be devoted to the study of cutaneous, kinæsthetic, gustatory, and olfactory sensations.
Winter Quarter
Dr. Watson

Course 4: Will consider the application of experimental methods to the study of the more complex processes of consciousness.
Spring Quarter
Dr. Watson

5. **Outline of Experimental Psychology.**—Lectures and class demonstrations illustrating the scope and principal results of experimental methods in psychology. M or Mj. Summer Quarter
Dr. Watson

Comparative, Social, Educational, and Genetic Courses

10. **Experimental Comparative Psychology.**—Work in the laboratory, and conferences. Senior College and Graduate students. Hours to be arranged. Open after consultation with instructor.
Mj. Spring Quarter
Dr. Watson

11. **Theoretical Comparative Psychology.**—A critical review of points of view and methods; and a discussion of the evolution of animal intelligence from the standpoint of movement in relation to space adjustments. The course may profitably be preceded by the experimental Course 10. Mj. Winter Quarter; 11:00
ASSOCIATE PROFESSOR MEAD

11A. **Comparative Psychology.**—A general discussion of the evolution of animal intelligence.
M. Second Term, Summer Quarter; 10:30
ASSOCIATE PROFESSOR MEAD

12. **Development of Mind in the Race.**—Formulation of habit in the tribal stage. Relation of the psychic life of the group to the group activities. Instruction and discipline of children by the parents and by the group. Educational meaning of initiation, secret societies, and tapu. Animistic beliefs and practices, and the influence of analogy, suggestion, and hypnotism in the formation of mind. Language and number. Imitation, invention, and genius. Comparison of the mental traits of different races, epochs, and social classes, and an estimate of the nature of the psychic interval between the natural and the culture races. (See VI, 27.)
M. First Term, Summer Quarter; 11:30
Mj. Autumn Quarter; 8:30
ASSOCIATE PROFESSOR THOMAS

13. **Contemporary Social Psychology.**—The development of social Psychology from individual Psychology will be traced, and its justification and methods discussed.
Mj. Winter Quarter
ASSOCIATE PROFESSOR MEAD
[Not to be given in 1906–7]

14. **Genetic Psychology.**—A consideration of problems, methods, and data in the psychological growth of children and youth. For Senior College and Graduate students.
Mj. Autumn Quarter; 8:30
ASSISTANT PROFESSOR GORE

14A. **Genetic Psychology.**—This course is planned to serve as an introduction to the study of the distinct modes of mental functioning in the human mind, considered from the genetic point of view.
M. First Term, Summer Quarter; 1:30
DR. MACMILLAN

14B. **Child-Study.**—This course will embrace such topics as the theory of mental measurements, the description and characterization of children's traits, the place and importance of child-study in a school system, and the like.
M. First Term, Summer Quarter; 2:30
DR. MACMILLAN
Prerequisite: *I A, 1.*

15. **Special Problems in Genetic Psychology.**—Designed for those who are prepared to undertake investigations involving observation and study of school children. The course may be taken only after conference with the instructor. For Graduate students. Mj. Summer Quarter
ASSISTANT PROFESSOR GORE

17. **Psychology Applied to Education.**—A discussion of psychological problems which have reference to Education. Mj. Spring Quarter; 8:30
ASSISTANT PROFESSOR GORE

18. **Educational Psychology.**—The dynamic conception of the mind, mental growth as a function of sensori-motor co-ordination; discussion of attention, interest, apperception, habit, etc., from this point of view.
M. Second Term, Summer Quarter; 11:30
DR. KING

19. **Psychology of Religion.**—A study of the typical phases of the religious consciousness.
Mj. Spring Quarter; 12:00
DR. AMES

ADVANCED EXPERIMENTAL COURSES

20, 21, 22. **Experimental Psychology.** Advanced Course. This course is primarily intended for purposes of original investigation. It may, however, be employed for securing technical drill in advanced methods not touched upon in the training courses. It presupposes a course like the foregoing, or extended practice in other laboratory work, biological or physiological. Selected problems will be assigned to individual students.

In Courses 2–4 and 20–22 there will be no attempt to do work on the strictly physiological side of Psychology—in the structure and functions of the nervous system. Unusual facilities for such work are afforded in the Departments of Neurology and Physiology, and the attention of all students of Psychology is called to these courses, described more fully in the special programmes of those departments. Relevant work in these lines will, with the consent and co-operation of the respective departments,

be credited in candidacy for the Doctor's degree.

3Mj. Autumn, Winter, and Spring Quarters
PROFESSOR ANGELL AND DR. WATSON

23. **Elementary Course in Psychophysic Methods.**—Lectures and laboratory work. The more familiar forms of procedure for quantitative study of the psychical processes will be discussed and illustrated. Mj. Winter Quarter; 8:30
DR. WATSON.

Prerequisite: *1 Mj. in Experimental Psychology.*

ADVANCED THEORETICAL COURSES

30. **History of British Psychology.**—A critical and expository examination of the more important writers. Mj. Autumn Quarter; 9:30
PROFESSOR ANGELL

[Not to be given in 1906–7]

31. **History of German Psychology.**—The principal German psychologists since Leibniz will be discussed and criticised. Ability to read German is extremely desirable for students who intend to take this course.
Mj. Winter Quarter; 9:30
PROFESSOR ANGELL

[Not to be given in 1906–7]

32. **Contemporary American and French Psychologists.**—Selected works of representative writers will be studied with special reference to the securing of information concerning the origins and national traits of French and American psychology. For Graduate students.
[Not to be given in 1906–7]

33. **Unsettled Questions in Psychology.**—A critical and constructive discussion of live problems; e. g., the psychology of judgment, the nature of meaning, the elements of feeling, etc. For advanced Graduate students.
Mj. Autumn Quarter; 9:30
PROFESSOR ANGELL

34. **The Psychology of the Educational Process.**—A critical and constructive study of selected problems bearing upon educational theory and practice. Feeling, will, habit, attention, apperception, and similar topics will be discussed. For Graduate students.
Mj. Winter Quarter; 9:30
PROFESSOR ANGELL

35 **The Relations of Psychology to Philosophy.**—An examination, partly historical and partly logical, of the relations of psychology to the philosophical disciplines. For advanced Graduate students. Mj. Spring Quarter; 9:30
PROFESSOR ANGELL

36. **Genetic Logic: Theory of Knowledge.**—Lectures on the development of cognition from sense to logical and æsthetic functions, showing the strains of genetic change and the motives to each of the great modes of knowledge. Postulates and canons of genetic method. For Senior College and Graduate students.
M. First Term, Summer Quarter; 9:00
PROFESSOR BALDWIN

36A. **Genetic Logic: Theory of Reality.**—Seminary course dealing with the comparative meanings of reality issuing from the several modes of cognition and establishing their relative validity for philosophy. For Graduate students.
M. First Term, Summer Quarter
PROFESSOR BALDWIN

37. **Advanced Psychology.**—A discussion of typical current problems in psychology; e. g., feeling, attention, the self, etc.
M. First Term, Summer Quarter; 10:30
PROFESSOR ANGELL

38. **Psychological Seminary.**—Methods of instruction in psychology, textbooks, lectures, etc. Ideals in the organization of courses in colleges, normal schools, and institutions of secondary education.
M. First Term, Summer Quarter; Mon. 1:30
PROFESSOR ANGELL

39. **Journal Club.**—Autumn, Winter, and Spring Quarters. Credit will be given in accordance with the amount of work performed. Hours to be arranged.

II. THE DEPARTMENT OF POLITICAL ECONOMY

OFFICERS OF INSTRUCTION

JAMES LAURENCE LAUGHLIN, Ph.D., *Professor and Head of the Department of Political Economy.*
THORSTEIN B. VEBLEN, Ph.D., *Assistant Professor of Political Economy.*
WILLIAM HILL, A.M., *Assistant Professor of Political Economy.*
JOHN CUMMINGS, Ph.D., *Assistant Professor of Political Economy.*
HERBERT JOSEPH DAVENPORT, Ph.D., *Assistant Professor of Political Economy.*
ROBERT FRANKLIN HOXIE, Ph.D., *Instructor in Political Economy.*
ROBERT MORRIS, A.B., LL.B., A.M., *Instructor in Political Economy.*
ERNEST R. DEWSNUP, A.M., *Professorial Lecturer on Railways, and Curator of the Museum of Commerce.*

FELLOWS, 1905-6

DONALD ELLIOTT BRIDGMAN, A.B.
GUDMUNDUR GRIMSON, A.B.
ALBERT LAFAYETTE HOPKINS.
ALBERT NEWTON MERRITT, A.M.
EUGENE BRYAN PATTON, A.B.
WILLIAM WALKER SWANSON, A.B.
ANNA PRICHITT YOUNGMAN, Ph.B.

INTRODUCTORY

The work of the Department is intended to provide, by symmetrically arranged courses of instruction, a complete training in the various branches of economics, beginning with elementary work and passing by degrees to the higher work of investigation. A chief aim of the instruction will be to teach methods of work, to foster a judicial spirit, and to cultivate an attitude of scholarly independence.

The Fellowships offered by the Department of Political Economy are independent of those offered by the allied Departments of History, Political Science, or Sociology. Appointments will be made only on the basis of marked ability in economic studies and of capacity for investigation of a high character. It is a distinct advantage to candidates to have been one year in residence at the University. Candidates for these Fellowships should send to the President of the University a record of their previous work and distinctions, degrees and past courses of study, with copies of their written or printed work in economics. Applications should be sent in not later than March 1 of each year. Appointments will be made during the first week of April.

Fellows are forbidden to give private tuition, and may be called upon for assistance in the work of teaching in the University or for other work; but in no case will they be expected or permitted to devote more than one-sixth of their time to such service.

In addition, one Graduate Scholarship, yielding a sum sufficient to cover the annual tuition fees, is awarded to the best student in economics just graduated from the Senior Colleges; and a similar Scholarship is given to the student graduating from the Junior Colleges who passes the best examination at a special test.

Candidates for the degree of A.M. will not be permitted to offer elementary courses in Political Economy as part of the work during the year's residence. The work of students taking Political Economy as a secondary subject for the degree of A.M. should include (1) the general principles of Economics (as contained in Courses 1 and 2, or an equivalent); (2) the history of Political Economy; and (3) the scope and method of Political Economy.

The work of candidates for the degree of Ph.D. taking Political Economy as a secondary subject should include, in addition to the above requirements for the degree of A.M., (1) Public Finance, and (2) some descriptive subject as, e. g., Money, or Tariff, or Railways, etc.; and the examination will be more searching than that for the degree of A.M. Nine Majors will be required.

In all cases candidates should consult early with the Heads of the Departments within which their Major and Minor subjects are taken.

Before being admitted to candidacy for the degree of Doctor of Philosophy, in case Political Economy is chosen as the principal subject, the student must furnish satisfactory evidence to the Head of the Department that he has been well prepared in the following courses (or their equivalents at other institutions): History of Europe in the Seventeenth and Eighteenth Centuries (History 11); Europe in the Nineteenth Century (History 12); Later Constitutional Period of the United States; the Civil War and the Reconstruction (History 18);

Comparative National Government (Political Science 11); Federal Constitutional Law of the United States (Political Science 32); Elements of International Law (Political Science 41); and Introduction to Sociology (Sociology 72).

As a means of communication between investigators and the public, the University issues quarterly the *Journal of Political Economy*, the first number of which appeared in December of 1892. Contributions to its pages will be welcomed from writers outside as well as inside the University, the aim being not only to give investigators a place of record for their researches, but also to further in every possible way the interests of economic study throughout the country. The *Journal* will aim to lay more stress than most other journals upon articles dealing with practical economic questions. The editors will welcome articles from writers of all shades of economic opinion, reserving only the privilege of deciding as to merit and timeliness.

Longer investigations, translations of important books needed for American students, reprints of scarce works, and collections of materials will appear in bound volumes in a series of "Economic Studies of the University of Chicago," of which the following have already been issued:

No. I. *The Science of Finance*, by Gustav Cohn. Translated by Dr. T. B. Veblen, 1895, 8vo, pp. xi+800. Price, $3.50.

No. II. *History of the Union Pacific Railway*, by Henry Kirke White, 1895, 8vo, pp. 132. Price $1.50.

No. III. *The Indian Silver Currency*, by Karl Ellstaetter. Translated by J. Laurence Laughlin, 1896, 8vo, pp. 116. Price $1.25.

No. IV. *State Aid to Railways in Missouri*, by John Wilson Million, 1897, 8vo, pp. 264. Price, $1.75.

No. V. *History of the Latin Monetary Union*, by Henry Parker Willis, 1901, 8vo, pp. ix+332. Price, $2.

No. VI. *The History of the Greenbacks with Special Reference to the Economic Consequences of Their Issue*, by Wesley Clair Mitchell, 1903, 8vo, pp. xiv+500. Price, $4 net.

No. VII. *Legal Tender:* A Study in English and American Monetary History, by Sophonisba P. Breckinridge, 1903, 8vo, pp. xvii+180. Price, $1.50, net.

The selection of the Economic Library has been made with great care, in order to furnish not only the books needed for the work of instruction in the various courses, but especially collections of materials for the study of economic problems. The University Library contains an unusually complete set of United States Documents, beginning with the First Congress. It is believed that ample provision has thus been made for the work of serious research. The work of the students will necessarily be largely carried on in the Economic Library, in the Law School Building, where will also be found the past as well as the current numbers of all the European and American economic journals.

The combined library facilities of Chicago are exceptional. The Public Library, maintained by a large city tax, the Newberry Library, and the Crerar Library, with a fund of several millions of dollars, which has provided books on Political Economy, will enable the student to obtain material needed in the prosecution of detailed investigation.

For the convenience of those who wish to know the branches of economics in which especial advantages are offered by the Department, attention is called to the new facilities afforded for specialization in several directions:

Apart from the fundamental training in the general economic field, a new and exceptional series of advanced courses in the economic side of railways has been provided. It is believed that no such extended and useful courses have ever been offered before on this subject. Beginning with the usual general course on railway transportation, several special courses are presented for advanced students.

In view of the pressing importance of questions touching upon the rewards of labor and capital, an exceptional arrangement of courses dealing both with the underlying principles and the practical movements of the day have been prepared upon new and extended lines.

Opportunities for specialization in the field of money and banking have been offered in the past, but additional courses have been organized in order to permit a more thorough study in these subjects, both theoretical and practical, than has ever been possible before.

The University has equipped a laboratory for statistical research work in which students are given training in the collection and tabulation of statistical data, as well as in the scientific construction of charts and diagrams. The object of the work is to familiarize students with practical methods employed in government bureaus,

municipal, state, and federal, in the United States and in other countries, and in private agencies of sociological and economic investigation. Men are trained to enter the service of such bureaus or agencies of social betterment as statisticians, capable of undertaking any work requiring expert statistical service. The Departments of Political Economy and of Sociology co-operate in the direction of statistical investigations.

COURSES OF INSTRUCTION

GENERAL

The courses are classified as follows:

Group I, Introductory and Commercial: Courses 1, 2, 3, 4, 5, 6.
Group II, Advanced Business Courses: Courses 7, 8, 9, 10, 11, 12.
Group III, General Economic Field: Courses 20, 21, 22, 23, 24, 25, 26, 27, 29–30, 31–32.
Group IV, Labor and Capital: Courses 40, 41, 42, 43, 44, 45, 46, 47, 48.
Group V, Money and Banking: Courses 50, 51, 52, 53, 54.
Group VI, Railways: Courses 60, 61, 63, 64.
Group VII, Statistics: Courses 70, 71, 72.
Group VIII, Seminars: Courses 80, 81, 82.

Students are advised to begin the study of Economics in the last year of the Junior Colleges.

Senior College and Graduate Courses

Group II. Advanced Business Courses

7. **Insurance.**—This course will aim to cover those aspects of insurance important to the practical business man. The history and theory of insurance will be examined with especial emphasis given (1) to Life Insurance: the various forms of organization; theory of rates; the different combinations of contracts; loan and surrender values; dividends; distribution periods; (2) to Fire Insurance: the various forms of business organization; the terms and conditions of the insurance contract; the different forms of hazard, and the computation and combination of rates therefor; the theory of reserves; co-insurance; the problem of valued-policy laws; (3) the general principle of public supervision with regard to the different forms of insurance, and the wider question of public ownership.

Mj. Autumn Quarter; 9:30
Assistant Professor Davenport

8. **The Mathematics of Insurance.**—This course presupposes some acquaintance with the descriptive aspect of Insurance. The course is devoted particularly to the mathematical principles of Life Insurance. The necessary elements of the theory are selected from the theories of probability, finite differences, and interpolation. Applications are made in particular to the following problems: the examination of the different mortality tables and the basing of mortality rates thereon; the loading of expenses and reserves and the variations of premiums, as affected by the prospective earnings of investments; the computation of total reserves; the fixation of loan and surrender values and of paid-up insurance, whether by life or term extension; the computation of present and deferred annuities as affected by considerations of age, life, term, endowment, joint-life, and annuity policies.

Prerequisite: *Trigonometry and College Algebra* (Mathematical Courses 1, 2 or 1, 5 or 4, 5). See Mathematics 9.

[Not to be given in 1906–7]

9. **Law of Insurance.**— Insurable interest in various kinds of insurance and when it must exist; beneficiaries; the amounts recoverable and valued-policies; representations; warranties; waiver and powers of agents; interpretation of phrases in policies; assignment of insurance. $5 extra is charged for this course.

Textbook: Wambaugh, *Cases on Insurance.* See Law School announcement.

Mj. Autumn Quarter (two hours), and First Term, Winter Quarter.

Assistant Professor Bigelow

10. **Accounting.**—The interpretation of accounts viewed with regard to the needs of the business manager rather than those of the accountant: the formation and meaning of the balance sheet; the profit and loss statement and its relation to the balance sheet; the capital accounts, surplus, reserve, sinking funds; reserve funds, their use and misuse; depreciation accounts; other accounts appearing on credit side; assets; methods of valuation; confusing of assets and expenses; capital expenditures and operating expenses; capital assets, cash and other reserves.

Prerequisite: *The Course in Bookkeeping offered by the Department of Mathematics.*

Mj. Winter Quarter; 11:00

MR. ARNETT

11. **Special Problems in Accounting.**—(*a*) Bank accounting. (*b*) Auditing: the duties of an auditor; methods of procedure; practice; problems frequently met. (*c*) Appraisal and Depreciation. (*d*) Railway Accounting: a consideration of the principal features; determination of the four main divisions of expense; the relation between capital expenditures and profit and loss. (*e*) The Public Accountant: legal regulations; duties and methods; constructive work in devising a system of accounting to fit special needs; practice in comparison of various systems; the advantages of various devices, loose-leaf and card systems; voucher system; cost keeping.

Conducted by experts from Chicago institutions.

[Not to be given in 1906–7]

12. **Modern Business Methods, Principles of Commercial Law.**—The purpose of the course is to give the student a knowledge of the fundamentals of business law. The law of contracts, sales, negotiable instruments, agency, and partnership will be considered. The law of corporations will be studied with special reference to economic problems, the following topics receiving attention: the organization of a corporation, capitalization, corporation securities, common and preferred stocks, bonds, the duties of officers and directors, the legal powers of a corporation, the dissolution and liquidation of corporations.

Mj. Spring Quarter; 2:00

MR. MORRIS

GROUP III. GENERAL ECONOMIC FIELD

20. **History of Political Economy.**—Lectures, Reading, and Reports. This course treats of the development of Political Economy as a systematic body of doctrine; of the formation of economic conceptions and principles, policies, and systems. Both the history of topics and doctrines and that of schools and leading writers will be studied. The student will be expected to read prescribed portions of the authors bearing on cardinal principles. A special feature of the work will be a thorough study of Adam Smith and of Ricardo. Mj. Autumn Quarter; 11:00

ASSISTANT PROFESSOR VEBLEN

21. **Scope and Method of Political Economy.**—The course treats of the premises on which the analysis of economic problems proceeds, the range of problems usually taken up for investigation by economists, the methods of procedure adopted in their solution, the character of the solutions sought or arrived at, the relations of Political Economy to the other moral sciences, as well as to the influence of the political, social, and industrial situation in determining the scope and aim of economic investigation. Special attention is given to writers on method, as Mill, Cairnes, Keynes, Roscher, Schmoller, Menger. Mj. Winter Quarter; 11:00

ASSISTANT PROFESSOR VEBLEN

22. **Finance.**—A comprehensive survey of the whole field of public finance. The treatment is both theoretical and practical, and the method of presentation historical as well as systematic. The main emphasis is placed upon the study of taxation, although public expenditures, public debts, and financial administration are carefully studied.

Mj. Summer and Spring Quarters; 8:30

ASSISTANT PROFESSOR DAVENPORT

23. **Tariffs, Reciprocity, and Shipping.**—The course of legislation and the development of our commercial policy are followed, and an effort made to indicate the influence of our protective tariffs upon the development of our domestic industries, upon the growth and character of our international trade, and incidentally upon the occurrence of industrial crises and the continuance of industrial prosperity at different periods in our history. Foreign trade policies and schemes for imperial tariff federation are taken up, and especial attention given to the negotiation of reciprocity treaties, as well as to recent attempts which have been made through federal legislation granting subsidies to build up American shipping. Mj. Autumn Quarter; 11:00

ASSISTANT PROFESSOR CUMMINGS

24. **Financial History of the United States.** In this course the Financial History of the United States is followed from the organization of our national system in 1789 to the close of the Spanish War. The following topics may be mentioned as indicating the scope of the course; the funding and management of the Revolutionary and other war debts; the First and Second United States Banks; the Independent Treasury; the present national banking system; Civil War financier-

ing with especial reference to bond and note issues, and resort to legal-tender currency; the demonetization of silver and issue of silver certificates; inflation of the currency and the gold reserve; the currency act of 1900. This study of the course of legislation upon currency, debts, and banking in the United States is based upon first-hand examination of sources, and students are expected to do original research work. Mj. Autumn Quarter; 2:00

Dr. Hoxie

25. **Economic Factors in Civilization.**—The course is intended to present a genetic account of the modern economic system by a study of its beginnings and the phases of development through which the present situation has been reached. To this end it undertakes a survey of the growth of culture as affected by economic motives and conditions. With this in view, such phenomena as the Teutonic invasion of Europe, the Feudal system, the rise of commerce, the organization of trade and industry, the history of the condition of laborers, processes of production, and changes in consumption, will be treated.

Mj. Spring Quarter; 11:00

Assistant Professor Veblen

26. **Problems of American Agriculture.**—Special attention will be given to the extension and changes of the cultivated area of the United States; the methods of farming; the influence of railways and population, and of cheapened transportation; the fall in value of eastern farm lands; movements of prices of agricultural products; European markets; competition of other countries; intensive farming; diminishing returns; farm mortgages; and the comparison of American with European systems of culture.

Mj. Winter Quarter; 2:00

Assistant Professor Hill

27. **Colonial Economics.**—The economics of colonial administration, including some account of commercialism, past and present, and of modern trade theories of imperial federation, trade relations, financial policies and economic development and dependence of colonies. A brief historical account of American and foreign experience serves as introduction to a fuller consideration of economic problems involved in modern colonial administration. In the light of this experience study is undertaken of some economic problems which have arisen in Cuba, Porto Rico, Hawaii, and the Philippine Islands.

Mr. Morris

[Not to be given in 1906–7]

29, 30. **Oral Debates.** — Selected Economic Topics. Briefs. Debates. Criticism.

2M. Autumn and Winter Quarters; Mon., 3:00–6:00.

Assistant Professor Hill,
Mr. Chandler, and Mr. Gorsuch

31, 32. **Argumentation.**—To be taken in connection with English 9.

2 hrs. a week. 2M. Autumn and Winter Quarters; Wed., 3:00.

Mr. Chandler

Group IV. Labor and Capital

40. **Theory of Value.**—After a brief preliminary survey of the discussions prior to Adam Smith, the cost-of-production theory, as developed at the hands of Ricardo, McCulloch, James Mill, Senior, J. S. Mill, and Cairnes is taken up for detailed study. Then the utility theory of value, as presented by Jevons and Austrian economists, is examined. Finally, the attempts made by such writers as Marshall, Dietzel, Pantaleoni, Clark, Patten, McFarlane, Hobson, etc., to frame a more satisfactory theory of value by combining the analysis of cost and of marginal utility, are reviewed.

Mj. Autumn Quarter; 9:30

Assistant Professor Davenport

41 and 42. **Labor and Capital.**—Unsettled problems of distribution. The more abstruse questions of distribution will be considered. No student, therefore, can undertake the work of this course with profit who has not already become familiar with the fundamental principles. The course is open only to those who have passed satisfactorily Course 2, or who can clearly show that they have had an equivalent training. The subjects to be considered will be as follows: The wages-fund and other theories of wages, the interest problem, managers' profits, and allied topics. The discussion will be based upon selected passages of important writers. The study of wages for example, will include reading from Adam Smith, Ricardo, J. S. Mill, Longe, Thornton, Cairnes, F. A. Walker, Marshall, George, Böhm-Bawerk, Hobson, J. B. Clark and others. Students will also be expected to discuss recent

important contributions to these subjects in current books or journals.

2Mj. Winter and Spring Quarters; 12:00

PROFESSOR LAUGHLIN

43. **Economics of Workingmen.**—Continuing the study of distribution (Course 41), examination is here undertaken of social movements for improving the condition of labor, to determine how far they are consistent with economic teaching, and likely in fact to facilitate or to retard economic betterment of workingmen. Efforts to increase earnings through modification of the wages system itself, resort to legislation, and the purposes and practices of labor organization are discussed, and the effect upon labor efficiency, earning capacity and steadiness of employment, of modern industrial systems; workingmen's insurance; co-operation; profit-sharing; competition of women and children; industrial education; social-settlement work; consumers' leagues. Interest centers about practical efforts for economic amelioration of employment conditions in "sweated" and in other industries. These studies are supplemented by statistical data on the condition of labor in different countries.

Mj. Spring and Summer Quarters; 2:00

ASSISTANT PROFESSOR CUMMINGS

NOTE.—Although open in certain cases to students of Sociology and others who have had the equivalent of the economic Courses 1 and 2, this course can be taken to best advantage by those only who have already had Course 41.

44. **Socialism.** — A history of the growth of socialistic sentiment and opinion as shown in the socialistic movements of the nineteenth century, and the position occupied by socialistic organizations of the present time. The course is in part historical and descriptive, in part theoretical and critical. The programmes and platforms of various socialistic organizations are examined and compared, and the theories of leading socialists are taken up in detail. Marx is given the chief share of attention, but other theoretical writers, such as Rodbertus, Kautsky, Bernstein, are also reviewed. The factors which at the present time further or hinder the spread of socialism, and what are its chances of being carried through or of producing a serious effect upon the institutions of modern countries, are considered.

Mj. Spring Quarter; 9:30

ASSISTANT PROFESSOR VEBLEN

45. **Organization of Business Enterprise—Trusts.**—A discussion of the growth of the conditions which have made large business coalitions possible, the motives which have led to their formation, the conditions requisite to their successful operation, the character and extent of the advantages to be derived from them, the drawbacks and dangers which may be involved in their further growth, the chances of governmental guidance or limitation of their formation and of the exercise of their power, the feasible policy and methods that may be pursued in dealing with the trusts. The work of the course is in large part investigation of special subjects, with lectures and assigned reading.

Mj. Autumn Quarter; 9:30

ASSISTANT PROFESSOR VEBLEN

46. **Trades Unions and the Labor Movement.**—An historical and comparative study of the trades union movement in the United States and in foreign countries. Negotiation and maintenance of wage-compacts; methods of arbitration, conciliation and adjustment; trades-union insurance and provision for the unemployed; incorporation and employees' liability; the precipitation and conduct of strikes; and in general all concrete issues involved in the organization of labor for collective bargaining with employers, with especial reference to the working programmes of the more important trades unions at the present time. Winter Quarter; 9:30

ASSISTANT PROFESSOR CUMMINGS

47. **The Industrial Revolution and Labor Legislation.**—The social consequences to the wage-earner of the development of the factory system of industry and of industrial development, more particularly during the last half of the nineteenth century, are taken up historically and descriptively. The social status of the modern wage-earner is contrasted with that of the handicraftsman working under more primitive conditions, and especial attention is given to the development of the modern wages system of remuneration, to the historical modification of the labor contract in its legal aspects, and, finally, to the course of labor legislation which has in different countries accompanied industrial reorganization and development.

ASSISTANT PROFESSOR CUMMINGS

[Not to be given in 1906–7]

48. **The Legal Status of Labor.**—The labor contract; the liability of the employer to the employee

and the fellow-servant doctrine; protective legislation; factory regulations, the labor of women and children; combinations of workmen, trades unions, strikes, boycotts, blacklists, and the use of injunction in labor disputes.

M. First Term, Summer Quarter; 2:30
DR. S. P. BRECKINRIDGE

GROUP V. MONEY AND BANKING

50. **Money and Practical Economics.**—An examination is first made of the principles of money, whether metallic or paper; then either the subject of metallic or paper money is taken up and studied historically, chiefly in connection with the experience of the United States, as a means of putting the principles into practice. Preliminary training for investigation is combined in this course, with the acquisition of desirable statistical information on practical questions of the day. The student is instructed in the bibliography of the subject, taught how to collect his data, and expected to weigh carefully the evidence on both sides of a mooted question. The work of writing theses is so adjusted that it corresponds to the work of other courses counting for the same number of hours.

Mj. Autumn Quarter; 12:00
PROFESSOR LAUGHLIN

51. **Advanced Course in Money.**—After having been drilled in the general principles of money (Course 50), the student is given an opportunity to examine the more difficult problems of money and credit. PROFESSOR LAUGHLIN

[Not to be given in 1906–7]

52. **The Theory and History of Banking.**—The course will begin with a description of the functions of a bank, followed by the history of Banking in the United States, including the First and Second Banks of the United States, the national banking system, state banks and trust companies. The salient points in the constitution and policy of the Bank of England, the Reichsbank, the Bank of France, and other great European banks will be taken up. A careful study will also be made of the banking systems of Scotland and Canada. The following points will be considered: note issue, deposit currency, loans, reserves, clearing-houses, the relation of banks to the government, the relation of banks to commercial crises, branch banking, and international exchange. Finally, a critical examination will be made of proposed modifications of the national banking system of the United States. Mj. Winter Quarter; 2:00
MR. MORRIS

53. **Practical Banking.**—This course is designed to give the student who is preparing to become a banker a knowledge of the manner in which banking operations are conducted. The following topics will receive attention: the manner of organizing a bank, the duties of different officers and employees, the departments of a bank's work, the services that banks perform for the business man, the loan market, the rate of discount, the bill broker, the principles upon which loans are made, the credit department of a bank, the various kinds of security, the difference between negotiable instruments and other contracts, the forms of negotiable paper, the legal relationship of different parties to negotiable paper, dishonor and protest, the relation of banks to one another, operations of the clearing house, the relation of banks to the stock exchange, the financing of corporations, collections, transmission of money, foreign exchange, methods of bookkeeping.

MR. MORRIS

[Not to be given in 1906–7]

54. **Commercial Crises.**—This course treats of the history and theory of crises. After a brief consideration of the earlier periods of depression, a detailed study will be made of the fluctuations of industry in the nineteenth century. The conditions preceding crises and the course of events during the periods of depression and subsequent revival will be investigated. The different factors popularly regarded as related to crises, such as the organization of industry, speculation, overinvestment, overproduction, the condition of the finances of the government, and the monetary system, will be analyzed. A careful study will be made of the operations of credit before and during periods of depression.

MR. MORRIS

[Not to be given in 1906–7]

GROUP VI. RAILWAYS

60. **Railway Transportation.**—The economic, financial, and social influences arising from the growth of modern railway transportation, especially as concerns the United States, will be discussed. An account of the means of transportation developed in Europe and America during the early part of this century; the experiments of the states in

constructing and operating canals and railways; national, state, and municipal aid to private companies; the rapid and irregular extension of the United States railway system; the failures of 1893; the reorganizations and consolidations since that time, with some attention to railway building in other countries, will form the historical part of the work. A discussion of competition, combination, discrimination, investments, speculation, abuse of fiduciary powers; state legislation and commissions, and the Inter-State Commerce Act, with decisions under it; and the various relations of the state, the public, the investors, the managers and the employees, will form the most important part of the work. This course gives a general view of the subject. Students who wish to continue the work by investigating special problems will have an opportunity to do so under Courses 61 and 62. Mj. Autumn Quarter; 2:00

ASSISTANT PROFESSOR HILL

61. **The Regulation of Railway Rates.**—A comparative study of the experience of the United States, Great Britain, Germany, France, Austria-Hungary, Russia, and Australia, made for the purpose of ascertaining: (*a*) whether the public regulation of railway rates leaves the railways sufficiently unhampered to enable them to develop trade and industry; (*b*) whether it secures more substantial justice for the producer and the trader than does the policy of leaving railway rates to adjust themselves.

[Not to be given in 1906–7]

GROUP VII. STATISTICS

70. **Training Course in Statistics.**—The object of this course is to train students in the practical use of statistical methods of investigation. Stress is laid upon work done by students themselves in collecting, tabulating, interpreting, and presenting statistics of different orders. Members of the class are also required to make close, critical examinations of various publications of a statistical nature with a view to determining the accuracy of data and the legitimacy of inferences drawn. Students engaged in any special work of investigation are encouraged to deal mainly with data relevant to their subjects. To others special topics are assigned. It is hoped that the course may prove useful to all students whose work, in whatever department it may lie, whether in history, sociology, or in other fields of study, is susceptible of statistical treatment. Courses 70 and 72 will be given in alternate years.

Mj. Spring Quarter; 10:00

ASSISTANT PROFESSOR CUMMINGS

71. **Statistics of Wages in the Nineteenth Century.**—In this course effort is made to determine what has been the actual movement of wages during the nineteenth century. An examination is undertaken of the more important statistical investigations of wage-movements which have been made from time to time by economists, government bureaus, or other agencies, in specific industries; the object being to determine the extent to which the wage-earner has in general participated in the benefits of industrial progress and of the increased economic efficiency of labor and capital. The course is intended to be informational and descriptive in character, as well as to give training in the collection and tabulation of statistical data.

Mj. Autumn Quarter; 8:30

ASSISTANT PROFESSOR CUMMINGS

72. **Demography.**—Statistical methods are illustrated by studies in population data, comprising the construction of actuarial tables; determination of the economic value of populations; economic aspects of the data of criminality and pauperism; growth and migration of population in the United States as "labor force," including statistics of the negro race. The development of official statistics of population, and the demographic work of government bureaus is taken up historically and critically. The object of the course is to give students training in handling population data as a basis of sociological and economic speculation, and to point out the bearing of such data and their importance in the historical development of economic theories.

ASSISTANT PROFESSOR CUMMINGS

[Not to be given in 1906–7]

GROUP VIII. THE SEMINARS

80, 81, 82. **Economic Seminar.**

3Mj. Autumn, Winter, and Spring Quarters

PROFESSOR LAUGHLIN

III. THE DEPARTMENT OF POLITICAL SCIENCE

OFFICERS OF INSTRUCTION

HARRY PRATT JUDSON, A.M., LL.D., *Professor of Comparative Politics and Diplomacy, and Head of the Department of Political Science.*
ERNST FREUND, J.U.D., PH.D., *Professor of Jurisprudence and Public Law.*
CHARLES EDWARD MERRIAM, PH.D., *Assistant Professor of Political Science.*

FELLOW, 1905-6

AUGUSTUS RAYMOND HATTON, PH.B.

INTRODUCTORY

Political Science, as treated in the University of Chicago, relates to the organization and working of the state. It covers the philosophy of the state, the structure and working of government, international law and diplomacy, and certain fundamental branches of municipal law.

The courses are planned with two purposes: (1) to give such knowledge and training as it is believed should be a part of liberal education; and (2) to afford advanced work either for those who desire to become students of Law, or for those who need a knowledge of Political Science for other ends, whether for teaching, for journalism, or for the intelligence with regard to public affairs which should belong to an educated citizen.

The introductory course may be taken as an elective by students who have finished nine Majors in the Junior Colleges. For advanced work, students will be expected (1) to have had the introductory course, or its equivalent; (2) to have a reading knowledge of French, German and Latin; and (3) to be familiar with the outlines of general history, and with the details of modern political history. English and American constitutional history, and the fundamental courses in the Departments of Political Economy and Sociology, are especially recommended.

One Fellowship was given for the year 1905-6. Appointments are made in accordance with the general regulations of the University.

The Departmental Library is in the Law School building, with the libraries of the Departments of Philosophy, Political Economy, History, and Sociology, and with the Law library.

Attention is called to a complete set of United States documents, some 5,000 volumes, in the General Library of the University.

The Chicago Public Library, the Crerar Library, and the Newberry Library afford much aid, and through the courtesy of the officers of the Chicago Law Institute, students have been able to use the valuable collection in that Library.

The Club of Political Science meets bi-weekly for the discussion of topics of general interest.

Such work as seems worthy of preservation and distribution will be published from time to time in a series of monographs. For the present it is intended that the series shall relate to the city of Chicago. Three monographs have thus far been published:

The Constitution of the Argentine Republic. The Constitution of the United States of Brazil; with Historical Introduction and Notes by ELIZABETH WALLACE, Docent in Spanish and in Latin-American Institutions in the University of Chicago. Chicago: The University of Chicago Press, 1894.

The Legal Nature of Corporations. By ERNST FREUND, J.U.D., Professor of Jurisprudence in the University of Chicago. Chicago: The University of Chicago Press, 1897.

The Charters of the City of Chicago. Part I: The Early Charters. By PROFESSOR EDMUND JANES JAMES, PH.D. Chicago: The University of Chicago Press, 1898.

The Charters of the City of Chicago. Part II. By PROFESSOR EDMUND JANES JAMES, PH.D. Chicago: The University of Chicago Press, 1899.

In the University Law School the following courses are required of candidates for the Doctorate of Philosophy in the Department of Political Science: Contracts (the first half of the course), Torts, General Constitutional Law, Federal Constitutional Law, Administrative Law, Municipal Corporations.

OFFICERS OF INSTRUCTION

11. **Comparative Politics, I: Comparative National Government.**—A comparative study of the constitutions and constitutional law of leading nations, as France, Germany, Switzerland, Great Britain, and the United States. For the Graduate Schools and the Senior Colleges.

Prerequisite: *Course 1, or its equivalent.*

Mj. Winter Quarter; 9:30
PROFESSOR JUDSON

12. **Comparative Politics, II: Federal Government.** The principal federations of recent times are studied — the United States, Germany, Switzerland, Canada, Australia, the Confederate States. For the Graduate Schools; open to Seniors with two Majors' credit in Political Science.

PROFESSOR JUDSON

[Not to be given in 1906–7]

13. **Comparative Politics, III: State Governments in the United States.**—A comparative study of the structure and workings of the governments of the various states. The historical development of state constitutions; suffrage qualifications; organization and action of the state legislature, executive, and judiciary; amendment of state constitutions; leading tendencies in state administration. For the Graduate Schools; open to Seniors.

Mj. Spring Quarter; 8:30
ASSISTANT PROFESSOR MERRIAM

14. **Comparative Politics, IV: Municipal Government.**—A comparative study of the modern municipality, American and European, in its political aspects. Municipal home rule; popular participation in city government; the municipal legislature; the executive; administration of public health and safety, charities and corrections, schools, public works, and finances. For the Senior Colleges.

Mj. Winter Quarter; 11:00
ASSISTANT PROFESSOR MERRIAM

15. **Comparative Politics, V: The Government of Colonies.**—A study of the political development of the European colonial system in the nineteenth century. European control in the far east, in Africa, and in Oceania. For the Graduate Schools; open to Seniors with two Majors' credit in Political Science.

PROFESSOR JUDSON

[Not to be given in 1906–7]

16. **The Development of Civil Liberty.**—A study of restrictions on government, from Magna Charta to present constitutions. For the Graduate Schools; open to Seniors with four Majors' credit in Political Science.

PROFESSOR JUDSON

[Not to be given in 1906-7]

GOVERNMENTS

17. **The Government of Great Britain.**— A somewhat detailed study, historical and descriptive, of the British system. For the Graduate Schools; open to Seniors with two Majors' credit in Political Science. PROFESSOR JUDSON

[Not to be given in 1906–7]

18. **The Government of France.** — A somewhat detailed study of the French system, as it has developed since the Revolution. For the Graduate Schools; open to Seniors with two Majors' credit in Political Science.

PROFESSOR JUDSON

[Not to be given in 1906–7]

19. **The Government of Germany.** — A study of the German Empire.

ASSISTANT PROFESSOR MERRIAM

[Not to be given in 1906–7]

19A. **The Government of Russia.**—A study of the political organization of the monarchy.

Mj. Winter Quarter; 2:00
MR. HARPER

20. **The Government of Chicago and Illinois.**— A detailed study of the structure and workings of the government of Chicago, Cook County, and the state of Illinois. For the Senior Colleges.

ASSISTANT PROFESSOR MERRIAM

[Not to be given in 1906–7]

POLITICS AND LAW

21. **The Process of Legislation and Parliamentary Law.**—A study of legislative structure and procedure, national, state, and municipal; also of the structure and procedure of political conventions and similar bodies, and the theory and practice of parliamentary law.

For the Senior Colleges: open to Juniors who have had Political Science I (or its equivalent).

PROFESSOR JUDSON

[Not to be given in 1906–7]

22. **Political Parties.**—A study of the organization and methods of action of modern political par-

ties in the United States. Growth of the party system; primary and convention systems; permanent party organization; elements of cohesion in parties; reform movements and measures; theory of the party system.

Mj. Autumn Quarter; 12:00
ASSISTANT PROFESSOR MERRIAM

23. **Municipal Problems.**—A detailed study of special problems in municipal organization and administration. For the Graduate Schools.

Prerequisite: *Courses 1 and 23 or equivalent.*
ASSISTANT PROFESSOR MERRIAM
[Not to be given in 1906–7]

25. **History of Political Theory.**—This course traces the development of political theories down to the present time. The Classical period; the Mediæval period; the Renaissance and the Reformation; the Revolutionary era; the period of reaction; the Austinian school; modern individualism and collectivism. For the Graduate Schools; open to Seniors.

Mj. Winter Quarter; 8:30
ASSISTANT PROFESSOR MERRIAM

26. **Principles of Political Science.**—This course presents a systematic study of the principles of political science. Scope and method of political theory; the nature of the state; the origin and basis of the state; sovereignty; the forms of the state; functions of the state. For the Graduate Schools; open to Seniors.

ASSISTANT PROFESSOR MERRIAM
[To be given in 1907–8] Courses 25 and 26 are to be given in alternate years.

27. **American Political Theories.**—This course covers the development of American political ideas. The Colonial period; the Revolution; Jeffersonian Democracy; Jacksonian Democracy; the Slavery controversy; the nature of the Union; recent tendencies. For the Graduate Schools; open to the Senior colleges.

M. Summer Quarter, 1906
ASSISTANT PROFESSOR MERRIAM

31. **General Constitutional Law.**—Written constitutions: (*a*) making, revision, and amendment; (*b*) judicial power to declare laws unconstitutional. Due process of law and the separation of powers: due process in administrative proceedings; legislative action and due process; due process in judicial proceedings; independence of the judiciary. Delegation of legislative power. Limitations of legislative power: equality; liberty; property. For the Graduate Schools and Seniors with 27 Majors of credit. Textbook: Thayer, *Cases on Constitutional Law*, Vol. I. Mj. Autumn Quarter; 2:00
PROFESSOR FREUND

32. **Federal Constitutional Law.**—Federal jurisdiction and express powers; implied powers; citizenship; privileges and immunities of citizens; suffrage; effect of later amendments; taxation; *ex post facto* and retroactive laws; laws impairing obligations of contracts; regulation of commerce; money; war. For the Graduate Schools and Seniors with 27 Majors of credit. Textbook: Thayer, *Cases on Constitutional Law*, Vols. I (part) and II.

Mj. Spring Quarter; 3:00
PROFESSOR HALL

33. **Municipal Corporations.**—General nature; corporate capacity; self-government; creation, annexation, division, dissolution, succession; mode of action, ratification and curative acts; estoppal by recitals; municipal police power; local improvements and services, including special assessments; municipal property, especially public streets; municipal contracts; expenditures and donations; indebtedness; constitutional limit; liability. For the Graduate Schools. Textbook: Smith, *Cases on Municipal Corporations.* Mj. Winter Quarter; 2:00
PROFESSOR FREUND

34. **Public Officers.**—Nature of office; eligibility; appointment and election; acceptance of office; qualifying for office; *de facto* officers; termination of officer's authority by expiration of term; resignation; removal; acceptance of incompatible office, etc.; authority of officer and its execution; liability of officer and the public; special remedies affecting official action. For the Graduate Schools. (Course 31 is a prerequisite.) Textbook: Mechem, *Public Officers*, and *Cases.*

Mj. Winter Quarter
PROFESSOR MECHEM (Law School)

35. **Administrative Law.**—Validity and construction of administrative powers; discretion; procedure; enforcement; remedies against wrongful administrative action; conclusiveness.

PROFESSOR FREUND
[Not to be given in 1906–7]

36. **Contracts.**—Mutual assent and the necessity of its communication; offers and their expiration or revocation; necessity of consideration; requi-

sites of contracts under seal; rights of beneficiaries and assignees. Open to Seniors with 27 Majors of credit. An extra fee of $5 is charged for this course. Mj. Autumn Quarter

PROFESSOR WHITTIER (Law School)

NOTE.—This first half of a two-Major course in the Law School is recommended especially to Political Science students. Examinations will be held at the end of the whole course in the Winter Quarter.

37. **Torts.**—Trespass to person, to real property, and to personal property; excuses for trespass; conversion; legal cause; negligence; contributory and imputed negligence; plaintiff's illegal conduct as a defense; duties of land owners; hazardous occupations; liability for animals; deceit; defamation: slander, libel, privilege, malice; malicious prosecution, criminal and civil; interference with social and business relations: inducing breaches of duty, fair and unfair competition, strikes, boycotts, business combinations. Open to Seniors with 27 Majors of credit. An extra fee of $5 per Major is charged for this course. Textbook: Ames and Smith, *Cases on Torts*, Vols. I and II.

Autumn Quarter; First Term, Winter Quarter; and Second Term, Winter Quarter (2 hrs.). 37A.

PROFESSOR HALL (Law School)

39. **Roman Law.**—History of Roman Law and its reception in other countries; system of procedure, especially of causes and forms of action; elementary principles of the law of persons and property, and their development in modern civil law; comparison between civil- and common-law treatment of similar problems. Open to Seniors and recommended to pre-legal students. Textbook: Sandar, *Institutes of Justinian.*

PROFESSOR FREUND

[Not to be given in 1906-7]

41. **The Elements of International Law.**—The Major Course in the Summer and in the Autumn will be devoted to the law of peace and the law of war. The half-Major course in the Winter will be devoted to the law of neutrality. For the Graduate Schools and the Senior Colleges. Prerequisite: *Course 1 or its equivalent.*

Autumn Quarter; 9:30

41A. ½Mj. Winter Quarter; 9:30

PROFESSOR JUDSON

DIPLOMACY

43. **Recent Diplomatic History of Europe.**—The principal European treaties of the last century are examined, with an especial view to ascertain the main principles of existing international agreements. Especial attention is given to treaties involving colonial relations. For the Graduate Schools and the Senior Colleges.

Spring Quarter; 9:30

PROFESSOR JUDSON

44. **Diplomatic History of the United States.**—The treaty relations of the United States are studied in detail, including an analysis of documents and an examination of methods. For the Graduate Schools and the Senior Colleges.

PROFESSOR JUDSON

[Not to be given in 1906-7]

THE SEMINARS

51, 52. **Seminar in Politics.**—These courses are intended for advanced students whose principal work is Political Science, and who are prosecuting research in special topics. For the Graduate Schools.

2Mj. Autumn and Winter Quarters. Tues., 4:00-6:00. PROFESSOR JUDSON

COURSES IN POLITICAL SCIENCE OFFERED BY OTHER DEPARTMENTS

Credit in the Department of Political Science will be given for the following courses offered by other Departments:

THE DEPARTMENT OF HOUSEHOLD ADMINISTRATION

20. **The State in Relation to the Household.**

Mj. Spring Quarter; 8:30

DR. BRECKINRIDGE

THE DEPARTMENT OF LATIN

XII, 51. **Research Course in Roman Politics.**—The political History of the years 62–57, 49–48, and 44–43 B. C. will be studied from the sources; the careers of the leading politicians of those years will be followed, and the character and purpose of the several political parties will be examined.

PROFESSOR ABBOTT

[Not to be given in 1906-7]

XII, 55. **Roman Provincial Administration.**—A study of the Roman system of government and taxation in the provinces, based mainly upon Cicero's orations against Verres and his letters from Cilicia, Pliny's correspondence with Trajan, and the inscriptions.

PROFESSOR ABBOTT

[Not to be given in 1906-7]

IV. THE DEPARTMENT OF HISTORY

OFFICERS OF INSTRUCTION

BENJAMIN TERRY, Ph.D., LL.D., *Professor of Mediæval and English History.*
EDWIN ERLE SPARKS, Ph.D., *Professor of American History.*
JAMES HENRY BREASTED, Ph.D., *Professor of Egyptology and Oriental History.*
*OLIVER JOSEPH THATCHER, Ph.D., *Associate Professor of Mediæval and English History.*
FRANCIS WAYLAND SHEPARDSON, Ph.D., *Associate Professor of American History.*
FERDINAND SCHWILL, Ph.D., *Associate Professor of Modern History.*
JAMES WESTFALL THOMPSON, Ph.D., *Assistant Professor of European History.*
JOSEPH PARKER WARREN, Ph.D., *Instructor in History.*
FRANCES ADA KNOX, A.B., *Assistant in History.*

FELLOWS, 1905-6

ARTHUR EUGENE BESTOR, A.B.
JULIAN PLEASANT BRETZ, A.B.
EDWARD BENJAMIN KREHBIEL, S.B.
MILO MILTON QUAIFE, Ph. B.
HENRY SMITH, Ph.B.

INTRODUCTORY

The undergraduate courses offered by the Department of History have been so arranged as to meet the needs, not only of the advanced work of the Department of History, but also of such other departments of the University as may require some preliminary training in history.

Two outline courses in general history are provided for students of the Junior Colleges, one an outline of the Mediæval period of European History, and the other an outline of the Modern period. A third course, an outline of the History of the United States since 1765, with Courses 1 and 2, will provide one year of continuous work for the general student. These courses, so far as possible, should be taken in the Junior Colleges and in order.

The courses offered in the Senior Colleges are divided into five groups and are arranged as follows:

Group A. *Ancient Oriental and Classical History*, from the beginning of civilization in Egypt and western Asia, to the age of the Antonines.

Group B. *The Development of Mediæval Europe,* from the decline of the ancient classical civilization to the beginning of the Reformation.

Group C. *The History of Modern Europe*, from the Reformation to the close of the nineteenth century.

Group D. *The Constitutional and Political History of England.*

Group E. *The Constitutional and Political History of the United States.*

Of these groups it is recommended that students who propose to fit themselves for graduate work in History, instead of taking the Courses 1, 2, and 3, complete Group A or Group B in the second year of the Junior College, Group B or Group C or Group D in the first year of the Senior College, and Group C or Group D or Group E in the second year of the Senior College.

It is further designed that Group A shall meet the needs of those students who intend to take up graduate work in the Semitic or Classical or related Departments: Groups A and B, the needs of those students who propose to enter the Divinity School; Groups B and C, those who enter the Romance or Germanic Departments; Group D, the English Department; Groups D and E, the Department of Political Science; Groups C, D and E, the Departments of Political Economy, or Sociology.

In the Graduate School, full liberty is allowed in the choice of subjects. Special courses are offered upon topics connected with Ancient, Mediæval or Modern European, or American History. In general, these subjects will be varied from year to year in regularly recurring series.

For advanced students, special seminar courses are conducted each Quarter under the direction of a Professor, for the double purpose of introducing the student to the methods of historical research, and also for the investigation of unsettled or disputed questions.

* Resigned.

The Historical Club, a voluntary organization of teachers and students, meets fortnightly for the reading and discussion of papers and the review of books and journals.

In addition to the general requirements for degrees specified in the *Annual Register*, pp. 74, 75, the following special requirements are announced. For convenience, five subdivisions of the field of history are recognized in the work of the Department: (*a*) ANCIENT HISTORY, including Oriental and Classical History; (*b*) MEDIÆVAL HISTORY; (*c*) MODERN EUROPEAN HISTORY, including contemporary ENGLISH HISTORY; (*d*) ENGLISH AND AMERICAN HISTORY; (*e*) AMERICAN HISTORY and contemporary EUROPEAN HISTORY.

1. The candidate for the Doctor's degree in History will be expected to pass an examination not only upon the courses which he may have taken in the Graduate School, but also upon the general field of History. But the main stress of the examination will fall upon that one of the five subdivisions within which the topic of the thesis submitted lies.

2. In selecting a secondary subject for examination, the utmost liberty in the choice of a Department is allowed. In each case the Department concerned will determine the amount to be submitted.

3. In cases where History is chosen as a secondary subject, the candidate may submit for examination any one of the five subdivisions mentioned above.

4. In all cases, the candidate shall also have completed Courses 1 and 2 of the Department of Political Economy, Course 11 of the Department of Political Science, and Course 72 of the Department of Sociology.

5. For the Master's degree at least one year's work in the Graduate School shall be submitted for examination. See also the general requirements in the *Annual Register*, pp. 74.

6. The candidate, in all cases where History is presented, either as a principal subject or a secondary subject for the Doctor's degree, shall, in addition to the general requirements in French and German, pp. 74 be expected to have such knowledge of the language or languages in which the chief sources of the main period submitted appear, as shall enable him to use such sources independently.

7. In all cases candidates are advised to call upon their respective examiners a month before the proposed examination, and definitely inform each of the work done, and of the topics which it is proposed to submit for examination.

The aim of the Department is to furnish in its library a laboratory for the student of History. Large purchases, especially of collections of sources, have lately been made. For English and American History, the Early Mediæval period, the French Revolution and early nineteenth century the collection is already extensive. The library is also furnished with the leading journals devoted to history. The libraries of the related Departments of Political Science, Political Economy, Sociology, Church History, Comparative Religion, and Semitic Languages are also available. Besides the libraries of the University, the Chicago Public Library, the Newberry Library, the Crerar Library, and the Library of the Chicago Historical Society add to the facilities for original investigation.

A Scholarship, yielding the amount of the tuition fees for three Quarters ($120), is awarded annually to that student who, having completed the work of the Junior Colleges, has maintained high standing in history in those colleges and has passed the best examination.

A Scholarship, yielding the amount of the tuition fees for three Quarters ($120), is awarded annually to that student who, having completed the work of the Senior Colleges, has maintained high standing in history in those colleges, and has passed the best examination.

The Colonial Dames of America in the State of Illinois have provided a Scholarship yielding annually the amount of $300, to be awarded under special conditions to be announced later.

Several Fellowships, yielding stipends of $320 upon the average, are awarded annually for the encouragement of graduate work in this Department.

COURSES OF INSTRUCTION

II. SENIOR COLLEGE COURSES

GROUP A. ANCIENT ORIENTAL AND CLASSICAL HISTORY

4. The History of Antiquity to the Fall of the Persian Empire.

Mj. Autumn Quarter; 2:00
PROFESSOR BREASTED

5. The History of Greece to the Death of Alexander.

—An outline study of the development of the political and social life of the Greek people.

Mj. Winter Quarter; 2:00
DR. BONNER

6. **The History of Rome to the Death of Constantine.** Of a character similar to that of Course 5.
Mj. Spring Quarter; 2:00
DR. BONNER

GROUP B. THE HISTORY OF EUROPE IN THE MIDDLE AGES

7. **The Dark Ages, 50 A. D. to 814 A. D.**
Mj. Autumn Quarter; 12:00
ASSISTANT PROFESSOR THOMPSON

8. **The Feudal Age, 814 A. D. to 1250 A. D.**
Mj. Winter Quarter; 12:00
ASSISTANT PROFESSOR THOMPSON

9. **The Age of Renaissance, 1250 A. D. to 1500 A. D.**
Mj. Spring Quarter; 12:00
ASSISTANT PROFESSOR THOMPSON

GROUP C. THE HISTORY OF EUROPE IN THE MODERN PERIOD

10. **Europe during the Reformation.**
Mj. Autumn Quarter; 12:00
ASSOCIATE PROFESSOR SCHWILL

11. **Europe in the Seventeenth and Eighteenth Centuries.** Mj. Winter Quarter; 12:00
ASSOCIATE PROFESSOR SCHWILL

12. **Europe from 1789 to 1815.**
Mj. Summer Quarter; 10:30
ASSISTANT PROFESSOR THOMPSON
Spring Quarter; 9:00
DR. WARREN

13. **Europe in the Nineteenth Century.**
Mj. Spring Quarter; 1908
DR. WARREN

GROUP D. THE HISTORY OF ENGLAND

14. **The Constitutional and Political History of England to the Reign of Edward I.**—Recommended for students in the pre-legal year preparatory to entering the Law School.
Mj. Autumn Quarter; 11:00
PROFESSOR TERRY

15. **The Constitutional and Political History of England from the Reign of Edward I to the Revolution of 1688.**—Recommended for students in the pre-legal year preparatory to entering the Law School. Winter Quarter; 11:00
PROFESSOR TERRY

16. **The Constitutional and Political History of England in the Eighteenth and Nineteenth Centuries.** Mj. Spring Quarter; 11:00
PROFESSOR TERRY

16A. **The Constitutional and Political History of England in the Eighteenth Century.**
M. Summer Quarter; 10:30
PROFESSOR TERRY

GROUP E. THE HISTORY OF THE UNITED STATES

18. **Constitutional History of the United States to 1801.**—Recommended for students in the prelegal year preparatory to entering the Law School. Mj. Autumn Quarter; 8:30
ASSOCIATE PROFESSOR SHEPARDSON

19. **Constitutional History of the United States from 1801 to the Civil War.**—Recommended for students in the prelegal year preparatory to entering the Law School.
Mj. Spring Quarter; 8:30
ASSOCIATE PROFESSOR SHEPARDSON

20. **The Constitutional and Political History of the United States since 1861.**
Mj. Spring Quarter, 8:30
ASSISTANT PROFESSOR SHEPARDSON

III. GRADUATE COURSES

NOTE.—See the courses: Comparative Religion 2, 3, 4; Semitic 96, 106, 110, 113–116, 176, 226; Biblical Greek 10–13; Greek 17, 24, 25, 32, 47; Latin 50, 51, 54, 55, 57, 58, 78, 79.

30. **Introduction to the Study of Mediæval and Modern History.**—The interpretation of history, the law of progress, the essential elements of modern civilization, the factors of progress, the city, the imperial idea, the Roman law, the church, feudalism, the nation, representative government, democracy. A graduate course; open to other students who have completed Courses 1 and 2. Mj. Autumn Quarter, 1907
PROFESSOR TERRY

31, 32. **The History of Civilization in Europe during the First Five Centuries of the Christian Era.**

Part I (31). *The Roman Empire.*—General view of the empire at the death of Augustus; the political constitution; economic and social organization; the causes and progress of decline; political history from the death of Marcus Aurelius to the death of Theodosius the Great.
Mj. Winter Quarter, 1908
PROFESSOR TERRY

Part II (32). *The Expansion of the Germans over Western Europe.*—Life and institutions of the early Germans; emigration and final settlement in Central and Western Europe; political history of the empire in the fifth century; the founding of the several barbaric kingdoms; new aspects of civilization at the opening of the sixth century. M. Summer Quarter, 11:30
Mj. Spring Quarter, 1908
PROFESSOR TERRY

36. **Mediæval Institutions, A.D. 284-568.**—Later Roman and Early German institutions. Growth of the civil power of the church and the rise of the papacy. The future of Roman, German, and ecclesiastical elements. Justinian and the imperial reaction. Mj. Autumn Quarter, 1908
ASSISTANT PROFESSOR THOMPSON

37. **Mediæval Institutions, A.D. 568-814.**—The rise of the Franks; relations of the Franks, the Lombards, and the papacy. Charlemagne and the organization of Latin and German Europe.
Mj. Winter Quarter, 1909
ASSISTANT PROFESSOR THOMPSON

38. **Mediæval Institutions. A.D. 814-912.**—The breaking up of the Frank empire and the feudal organization of western Europe. The invasions of the Northmen. Mj. Spring Quarter; 1909
ASSISTANT PROFESSOR THOMPSON

39, 40. **The Later Carlovingians and Early Capetians, 814-987.** 2Mj
ASSISTANT PROFESSOR THOMPSON
[Not to be given in 1906-7]

41, 42, 43. **Feudalism and the French Monarchy.**—This course will be based upon the reading, in whole or in part, of the following sources of French history: *Sugerii Vita Ludovici Grossi* (*Vie de Louis VI. le Gros, 1108-37*) ed. of Molinier, 1887 *Galberti* de Multro, *Traditione et occisione Karoli Comitis Flandriarum* (*Histoire du meutre de Charles le Bon*) ed. of Pirenne, 1891; supplemented by lectures, reports, collateral reading, etc. Special attention will be given to the history of institutions, the nature of feudal law, and the structure of society.
3Mj. Autumn, Winter, and Spring Quarters, 2:00.
ASSISTANT PROFESSOR THOMPSON

44, 45, 46. **The Hundred Years' War.**—A history of western Europe during the fourteenth and fifteenth centuries.
3Mj. Autumn, Winter, and Spring Quarters, 1907-8.
ASSISTANT PROFESSOR THOMPSON

51. **Origin and History of the Cities of Tuscany.**—The feudal settlement of Tuscany; quarrel for possessien between pope and emperor; the centers of trade and the communal spirit; the early constitutions and commercial rivalries; the primacy of Florence. The class will spend part of the time in examining diplomas, bulls, constitutions, etc.; a reading knowledge of Latin required. Lectures, interpretation of documents, and reports by students.
Mj. Autumn Quarter; 3:00
ASSISTANT PPOFESSOR SCHWILL

52. **The Intellectual History of Italy in the Renaissance.**—The instructor will examine the thought of the Middle Ages and analyze the forces which disrupted it. A close study will be made of the work of Dante, Petrarch, and the humanists, together with the effect of the new thought upon state, church, society, commerce, science, and the universities. Lectures supplemented by reports prepared by the students.
Mj. Winter Quarter; 3:00
ASSOCIATE PROFESSOR SCHWILL

61. **Introduction to the Study of English History.**—Sources and literature of English history; importance of English institutions; principles of progress; development of constitutional monarchy; the awakening of the nation; the struggle for religious and political liberty; the expansion of the empire; the growth of the democracy.
Open to undergraduates who have completed an elementary course in English history.
Mj. Autumn Quarter, 12:00
PROFESSOR TERRY

62. **The Founding of the English State.**—The development of early English institutions from the earliest times to the reign of Edward I.
Mj. Winter Quarter, 12:00
PROFESSOR TERRY

63. **The Establishment of the English Constitutional Monarchy.**—The development of the parliamentary and judicial systems of England from the thirteenth to the sixteenth century.
Mj. Spring Quarter, 12:00
PROFESSOR TERRY

64. **The History of England in the Nineteenth Century.**—The growth of the democracy. Parliamentary Reform. The development of local self-government. The Eastern Question. The constitution of the British empire.
M. First Term, Summer Quarter; 11:30
PROFESSOR TERRY

65. **The Constitutional History of England from 1558 to 1625.**
DR. WARREN
[Not to be given in 1906-7]

66. **The Constitutional History of England from 1625 to 1660.**
DR. WARREN
[Not to be given in 1906–7]

67. **The Constitutional History of England from 1660 to 1702.** Mj. Autumn Quarter; 8:30
DR. WARREN

68. **The Constitutional History of England from 1702 to 1760.** Mj, Winter Quarter, 9:30
DR. WARREN

Courses 67 and 68 deal primarily with the constitutional and institutional history of Great Britain, but with frequent reference to the religious, social, and economic history of the period. Important use will be made of documents, especially those in C, G. Robertson's *Select Statutes, Cases, and Documents to Illustrate English Constitutional History, 1660–1832.*

71. **The Rise of Prussia.**—Settlement and history of Brandenburg, arrival of the house of Hohenzollern, the Reformation, the absolutism of the Great Elector. Particular attention will be given to Frederick the Great, to his diplomacy, his wars, and his conquests, as well as to his methods of government.
Mj. Autumn Quarter, 1907
ASSOCIATE PROFESSOR SCHWILL

72. **The Rise of Prussia** (Continued).—Prussia and the French Revolution, her weakness, her greed, and her ruin at Jena at the hands of Napoleon. The rebirth followed by the glorious Wars of Liberation. The reaction after 1815 and the revolution in 1848. Bismarck's plan of the unification of Germany achieved by the wars of 1864, 1866, and 1870. Mj. Winter Quarter, 1908
ASSOCIATE PROFESSOR SCHWILL

75. **The French Revolution.**—The study of the *ancien régime* is followed by the history of the reign of Louis XVI, the meeting of the States General, the triumph of the Revolution, and the making of a constitution. French a prerequisite. Lectures and reports. Mj. Autumn Quarter, 1908
ASSOCIATE PROFESSOR SCHWILL

76. **The French Revolution** (continued).—The rise of republicanism and the overthrow of the monarchy (1792), followed by the revolutionary wars, the triumph of the radicals and the Reign of Terror, the reaction of Thermidor and the establishment of the Directory (1795).
Mj. Winter Quarter, 1909
ASSOCIATE PROFESSOR SCHMITT

81. **American Colonial History from 1760 to 1789.**
Mj. Autumn Quarter; 9:30
ASSOCIATE PROFESSOR SHEPARDSON

82. **United States History from 1829 to 1850.**
Mj. Winter Quarter; 9:30
ASSOCIATE PROFESSOR SHEPARDSON

83. **United States History from 1869 to 1885.**
Mj. Spring Quarter; 9:30
ASSOCIATE PROFESSOR SHEPARDSON

84. **Political Parties in the United States.**
Mj. Autumn Quarter, 1907
ASSOCIATE PROFESSOR SHEPARDSON

85. **The Negro in American History.**
Mj. Winter Quarter, 1908
ASSOCIATE PROFESSOR SHEPARDSON

86. **United States History from 1789 to 1829.**
Mj. Spring Quarter, 1908
ASSOCIATE PROFESSOR SHEPARDSON

87. **History of Internal Improvements in the United States.**—A study of early coast and interior commerce, means of inter-state communication, the transfer of improvements from the States to the Union, and resulting effects on Constitutional interpretation.
Mj. Autumn Quarter; 11:00
PROFESSOR SPARKS

88. **History of the United States from the Compromise of 1850 to Secession.**—Geographic and economic differences between the sections which led to a re-organization of parties, the election of Lincoln, and a test of Secession.
Mj. Winter Quarter; 11:00
PROFESSOR SPARKS

89. **History of the Public Land System.**—This course will consider (*a*) land tenure in the different colonies, (*b*) the formation of the Public Domain, (*c*) the uses and abuses of the public lands.
PROFESSOR SPARKS
[Not to be given in 1906-7]

91. **Territorial Acquisitions of the United States.**
PROFESSOR SPARKS
[Not to be given in 1906–7]

92. **The Beginnings of the Trans-Alleghanian Commonwealths.** — Exploration and settlement of the West; creation of states from territories; the relations of the states to the Union.
PROFESSOR SPARKS
[Not to be given in 1906–7]

93. **History of Internal Improvements in the United States.** PROFESSOR SPARKS
[Not to be given in 1906–7]

100. **Teachers' Course in American History, 1760–1865.**—Bibliography. Investigation of special topics. Open to teachers of secondary schools who are interested in the teaching of American history. Undergraduate students must take Course 3, or the courses of Group D, as prerequisites.

Mj. Summer Quarter; 8:00

Associate Professor Shepardson

THE SEMINARS

101, 102, 103. **English History.**—Special investigation of current and unsolved problems connected with the political and institutional history of England. 3Mj. Autumn, Winter and Spring Quarters. Fridays, 4:00–6:00

Professor Terry

111. **The Articles of Confederation.**—A study of the Articles as a frame of government, their strong and weak points, and especially their failure to meet the requirements of the Thirteen States.

Mj. Autumn Quarter; Mondays, 4:00–6:00

Professor Sparks

112. **The Confederate States of America.**—An investigation of the experiment of the seceding States, their domestic and foreign relations, their economic difficulties, and the possibility of their success if not forced to return to the Union.

Mj. Winter Quarter; Mondays, 4:00–6:00

Professor Sparks

V. THE DEPARTMENT OF THE HISTORY OF ART

OFFICERS OF INSTRUCTION

FRANK BIGELOW TARBELL, Ph.D., *Professor of Classical Archæology.*
JAMES HENRY BREASTED, Ph.D., *Professor of Egyptology and Oriental History.*
GEORGE BREED ZUG, A.B., *Instructor in the History of Art.*

INTRODUCTORY

The University owns a considerable number of original Egyptian antiquities and of casts of Egyptian and Assyrian bas-reliefs and other objects. It owns also several thousand photographs illustrating all branches of the history of art which are here taught. These are constantly accessible to students. Furthermore, the neighboring Field Museum of Natural History has some illustrative material, the Egyptian collection being unusually valuable; and the Art Institute of Chicago, which may be reached in about half an hour from the University, has a large number of casts of sculpture and architecture, reproductions in bronze of most of the bronze statues found in Pompeii and Herculaneum, some original works of Egyptian, Greek, and Roman art, and a gallery of paintings, which includes examples of some of the great masters of the seventeenth century. Much use is made by the department of the opportunities afforded by these public collections.

Graduate students intending to take courses in this Department in fulfilment of the requirements for the degree of Master of Arts, Philosophy, or Science, or for that of Doctor of Philosophy, must announce their intention in advance to the instructor or instructors concerned and must undertake assignments of work in addition to that ordinarily done by undergraduates.

Candidates for the degree of Doctor of Philosophy in this department are at liberty to confine themselves to the Ancient Period or the Mediæval and Modern Period. They are, however, strongly advised, while concentrating their studies upon one of these subdivisions, to acquaint themselves with at least the outlines of the subject in the other subdivision.

COURSES OF INSTRUCTION

Senior College and Graduate Courses

I. THE ANCIENT PERIOD

1. **Oriental Art from the Earliest Times to the Conquests of Alexander.**—See VIII, 234. Mj

Professor Breasted

2. **Greek Art.** Mj. Autumn Quarter; 8:30

Professor Tarbell

3. **Greek Life, Studied from the Monuments.**

Mj. Autumn Quarter; 9:30

Professor Tarbell

4. **Ancient Athens, Olympia, and Delphi.**—A study of the sites named, on the basis of the extant remains. Mj. Autumn Quarter
PROFESSOR TARBELL
[Not to be given in 1906]

4A. **Ancient Athens, Olympia, and Delphi.**
M. First Term, Summer Quarter; 8:00
PROFESSOR TARBELL

5. **Roman Art.** Mj. Winter Quarter
PROFESSOR TARBELL
[Not to be given in 1907]

6. **Fifth Century Greek Sculpture.**—Prerequisite: *Course 2.* Mj. Winter Quarter
PROFESSOR TARBELL
[Not to be given in 1907]

7. **Greek Vases.** Mj. Winter Quarter
PROFESSOR TARBELL
[Not to be given in 1907]

7A. **Greek Vases.**
M. First Term, Summer Quarter; 9:00
PROFESSOR TARBELL

8. **Greek and Roman Coins and Gems.**
Mj. Spring Quarter; 8:30
PROFESSOR TARBELL

9. **Fourth Century Greek Sculpture.**—Prerequisite: *Course 2.* Mj. Spring Quarter; 9:30
PROFESSOR TARBELL

10. **Greek Architecture.** Mj. Spring Quarter
PROFESSOR TARBELL
[Not to be given in 1907]

11. **Attic Red-Figured Vases.** Mj. Spring Quarter
PROFESSOR TARBELL
[Not to be given in 1907]

II. THE MEDIÆVAL AND MODERN PERIOD

The laboratory method of study is employed in each of the following courses, and occasional visits to the Art Institute or to other collections of pictures are required.

21. **Historic Periods of Mural Decoration.**—The class will study late Roman decoration (Herculaneum and Pompeii); the great Byzantine mosaics of Italy and Sicily; the frescoes of the Florentine and Roman schools of the fourteenth, fifteenth, and sixteenth centuries; the wall paintings of Tintoretto and Veronese; Mediæval and Renaissance tapestry and stained glass in France and Flanders.
M. First Term, Summer Quarter; 1:30
MR. ZUG

22. **Modern Mural Decoration.**—The work will include a study of the English Pre-Raphaelite painters (Burne-Jones, Rossetti, and Morris) and their influence on interior decoration; of the chief decorators of the French School in the nineteenth century; and of contemporary mural painting in America.
M. Second Term, Summer Quarter; 1:30
MR. ZUG

23. **Romanesque and Gothic Architecture.**—An outline of the development of Gothic architecture, for beginners, including a short study of Romanesque and Gothic ornament.
M. First Term, Summer Quarter; 2:30
MR. ZUG

24. **American Art—An Outline Study.**—A brief study of the elder American painters, and a more careful examination of the work of the contemporary painters and of the best-known sculptors.
M. Second Term, Summer Quarter; 2:30
MR. ZUG

25. **An Introduction to the Study of Art.**—The main objects of the course are: (1) to interest beginners in some of the masterpieces of painting; to indicate how to study and appreciate art, and to call the attention of students to the importance of the Fine Arts in general culture. At the same time the class follows the broad movements in national schools of art from the Italians of the Renaissance to contemporary masters of the French and American schools. There are informal discussions of old and modern paintings and lectures on the place of the Fine Arts in general education; on principles of artistic expression, and on the influence of national characteristics on the great schools of art.
Mj. Winter Quarter; 2:00
MR. ZUG

26. **Dutch and Flemish Paintings.**—During the First Term, in studying the Flemish masters from Van Eyck and Memlinc to Rubens and Van Dyck, special attention will be given to the principles and development of the arts of portraiture and of landscape painting. This study is carried on in the Second Term in the works of the great masters of that school. Besides the excellent collection of original Dutch and Flemish paintings in the Art Institute, the class will have access to collections of Rembrandt's etchings

and of modern Dutch paintings. These will be studied in comparison with the old masters.
Mj. Winter Quarter; 3:00
MR. ZUG

27. **Venetian and Spanish Painting.**—An outline study of the great masters of the Venetian and Spanish schools, with some attention to their influence on modern French painting.
Mj. Spring Quarter; 2:00
MR. ZUG

28. **Movements in Nineteenth Century Art.**—French Classicism and Romanticism in the Nineteenth Century; the Barbizon School; the *plein-air* painters of landscape and of the figure; the French impressionists; the English Pre-Raphaelite movement; and the more important phases of American art (painting and sculpture). Mj. Spring Quarter; 3:00
MR. ZUG

VI. THE DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

OFFICERS OF INSTRUCTION

ALBION WOODBURY SMALL, PH.D., LL.D., *Professor and Head of the Department of Sociology.*
CHARLES RICHMOND HENDERSON, PH.D., D.D., *Professor and Head of the Department of Ecclesiastical Sociology.*
GEORGE EDGAR VINCENT, PH.D., *Professor of Sociology.*
CHARLES ZUEBLIN, PH.B., D.B., *Professor of Sociology.*
FREDERICK STARR, PH.D., *Associate Professor of Anthropology, and Curator of the Anthropological Section of Walker Museum.*
WILLIAM ISAAC THOMAS, PH.D., *Associate Professor of Sociology.*
JEROME HALL RAYMOND, PH.D., *Associate Professor of Sociology.*
IRA WOODS HOWERTH, PH.D., *Assistant Professor of Sociology.*
GEORGE AMOS DORSEY, PH.D., *Assistant Professor of Anthropology.*
GRAHAM TAYLOR, D.D., *Professorial Lecturer.*
MARY E. McDOWELL, *Resident Head of the University Settlement.*

FELLOWS, 1905-1906

SCOTT ELIAS WILLIAM BEDFORD, A.B. HOWARD WOODHEAD, A.B.
ERVILLE BARTLETT WOODS, A.B.

INTRODUCTORY

The division of labor assigned to this Department is, on the one hand, study of the general process of human association, and, on the other hand, of the principles of conduct indicated by ascertained knowledge of social relations considered as a whole.

This double task implies, first, that the Department depends largely upon use of the method and results of the other Departments in the Historical Group, including Psychology; second, that conversely the special sciences in the Group depend logically upon presumptions about the meaning and relative importance of the general social relations which it is the work of Sociology to investigate.

The union of the subject of Anthropology and Ethnology with Sociology is merely provisional, and does not imply that the logical relations between them and Sociology differ from those between the latter subject and the other special social sciences. The courses offered are intended to enable students to gain a general idea of the history of human progress, to take a survey of the races of mankind, to study the beginnings made by primitive man in times before history, and to acquire necessary methods of research in these subjects.

The facilities for sociological study in the University of Chicago are unsurpassd. The differentiation of Departments devoted to social phenomena, and the division of labor within the Departments, is nowhere more distinct and minute. The city of Chicago is one of the most complete social laboratories in the world. While the elements of Sociology may be studied in smaller communities, and while it may be an advantage to begin-

ners in the method of positive Sociology to deal at first with more simple social combinations, the most serious problems of modern society are presented by the great cities, and must be studied as they are encountered in concrete form in large populations. No city in the world presents a wider variety of typical social problems than Chicago.

The instructors in the Department of Sociology aim to use the scientific material thus afforded both for academic and for practical purposes. They find a large proportion of their opportunities for research in co-operation with the public-spirited men and women of the city. They are active members of many organizations of citizens for the purpose of investigating and shaping the life of Chicago. Graduate students in the department are taught to work among social facts, and to test and form theory by experience.

Thus the organized charities of the city afford Graduate students of the University both employment and training. The church enterprises of the city enlist students in a similar manner. Several students of Sociology have been residents and workers at Hull House. A social settlement upon the plan of Hull House has been founded and maintained by students and instructors in the University. Social organizations of every description, from Trades Unions to the City Club, afford illustrations of every type of modern social experiment, and opportunity for the largest variety of observation and experience. Representatives of all these phases of social effort cordially co-operate with the Department of Sociology in making these social endeavors tributary to the training of sociological students. It is the purpose of this Department to appropriate to the utmost every advantage afforded by the vast social laboratory within which the University is located.

The subjects in the Department of Sociology and Anthropology fall into the following groups: A, General Sociology; B, Anthropology and Ethnology; C, Social Psychology; D, Social Technology. Candidates for the higher degrees, if otherwise qualified, may choose either of these groups as principal or secondary subject. The minimum amount of work accepted for the degree of A.M. is six Majors, or for the secondary subject leading to the degree of Ph.D., nine Majors. If either of the above groups be chosen as the principal subject for the degree of Ph.D., the equivalent of eighteen Majors within or under the direction of the Department of Sociology and Anthropology will be required.

The instructors in this Department edit the *American Journal of Sociology*, which is published bimonthly on the first of January, March, May, July, September, and November. The subscription price, postage prepaid, for the United States, Canada, and Mexico is $2 per year; for foreign countries, $2.50; single numbers, 35 cents. The seventh annual volume is now current.

The members of the Sociology Club are the instructors and Graduate students in the Department of Sociology and Anthropology. By a vote of two-thirds of the members of the club, other persons, whether connected with the University or not, may be admitted to membership. Meetings are held every fortnight.

COURSES OF INSTRUCTION

1. **General Anthropology.**—Outlines of the Science. Tylor, *Anthropology*. The class work will be based on the textbook named.

*Associate Professor Starr

1A. **Anthropology,**—Introductory course; intended for those who propose to take advanced work in Anthropology, Sociology or related subjects. The divisions of the Science; the aims, methods, and problems of each division. Open to Junior College students.

Mj. 4 hrs. a week. Autumn Quarter; 12:00.

Assistant Professor Dorsey

2. **Ethnology.**— Study of General Ethnology. Brinton, *Races and Peoples*, will first be studied. The subject will then be developed by class lectures, discussions, and preparation by students of essays upon special and assigned topics. The objects sought in this course are, (1) to present the great problems of Ethnology; (2) to consider systems of classification of human races and the basis for such classification; (3) to follow the history of the science.

Associate Professor Starr

[Not to be given in 1906–7]

2A. **Physical Anthropology.**—Introductory course, intended primarily for students who propose to take advanced work in Physical Anthropology or who are preparing for the medical profession. The object of the course is to define man's relation to the animal kingdom and to classify mankind according to races and types.

*Professor Starr is on leave of absence during the year 1906-7 for field work in Central Africa. For this reason his courses will not be given.

This course alternates with 3A and is given in even years. Prerequisite: *Course 1A.*

Mj. 4 hrs. a week. Winter Quarter; 12:00
ASSISTANT PROFESSOR DORSEY

3. **Prehistoric Archæology.**—European. Outline of the science so far as it deals with the Old World. Textbook work, based upon de Mortillet, *Le Prehistorique*, will be supplemented by lectures, collateral reading, and practical work in laboratory and museum. Preliminary to this work, study will be made of quaternary geology and of the geological evidence of man's antiquity.

ASSOCIATE PROFESSOR STARR
[Not to be given in 1906–7]

3A. **Physical Anthropology.**—This course considers the problems of Physical Anthropology, and especially the methods of their solution. The statistical and metrical methods in their relation to these problems as well as to those of general biology will be studied. Practical work, involving the use of instruments, will be done in craniometry, anthropometry, etc. The course is introductory to original investigation in Physical Anthropology and to the statistical study of general biological problems.

This course alternates with 2A and is given in odd years. Prerequisite: *Course 2A.*

Mj or DMj. Winter Quarter; 12: 00
ASSISTANT PROFESSOR DORSEY

4. **Physical Anthropology.** — Elementary course. Students are made acquainted with the instruments used in the science, with the methods and with the results to be gained. Examples of various races will be examined and the work will be made practical.

ASSOCIATE PROFESSOR STARR
[Not to be given in 1906–7]

4A. **Ethnography.**—This course deals with the tribes of America — their origin, migration, and distribution — and considers the problems arising from a comparative study of their culture, language, and physical structure. The effects of heredity and geographical environment are especially studied.

This course alternates with 5A and is given in even years. Prerequisite: *1A.*

Mj. Spring Quarter; 12:00
ASSISTANT PROFESSOR DORSEY

5. **The American Race.** — This course will alternate, year by year, with Course 2, the subject varying.

ASSOCIATE PROFESSOR STARR

5A. **Ethnology.** — In this course are considered the probable beginnings and historical development for America of the various elements of culture, including the material, social, and religious.

This course alternates with 4A and is given in odd years. Prerequisite: *1A.*

Mj. Spring Quarter; 12:00
ASSISTANT PROFESSOR DORSEY

6. **Prehistoric Archæology.** — American. The general subject will be presented in class lectures. Students will select a special topic for individual reading under direction. Theses resulting from such reading will be presented and discussed. Personal field work and laboratory study should, if possible, be done in connection with the thesis work. Course 6 alternates with Course 3. ASSOCIATE PROFESSOR STARR
[Not to be given in 1906–7]

6A, 7A, 8A. **Research Course.** — Advanced work in Physical Anthropology, Ethnology, or Archæology, to be given in the laboratory of the Department of Anthropology of the Field Museum, will be arranged for properly qualified students. For prerequisite: consult instructor.

Mj or D.Mj. Autumn, Winter, and Spring Quarters.

ASSISTANT PROFESSOR DORSEY

7, 8, 9. **Physical Anthropology—Laboratory Work.**—Topinard, *Eléments d'Anthropologie Générale* will be carefully studied. Students will do practical work in Craniometry, Anthropometry, etc. Besides instrumental work they will tabulate results, pursue original investigation, and prepare reports. Primarily for Graduate students. Offered in successive Quarters (except Summer) when the instructor is in residence.

ASSOCIATE PROFESSOR STARR

10. **Mexico.**— Study of the Archæology, Ethnology, and Physical Anthropology of Mexico. In addition to textbook study, class lectures will be given, and practical work with collections representing the archæology and ethnography of Mexico will be required.

ASSOCIATE PROFESSOR STARR

11, 12, 13. **Laboratory Work in Anthropology.**—Selected students, qualified for such work, may pursue studies in the Laboratory or Museum, in Archæology, Ethnology, or Physical Anthropology, provided that, by so doing, they do not trespass upon the field of the other workers in the University. Such study will be under the direction

of the instructor in Anthropology, and, if desired, with his assistance. Offered in successive Quarters (except Summer) when the instructor is in residence.

ASSOCIATE PROFESSOR STARR

14. **Japan.**—The instruction is chiefly by lectures. Special attention is paid to industrial art and religion. Special topics are assigned for study and each member of the class must present at least two papers for class discussion.

ASSOCIATE PROFESSOR STARR

15. **The Pueblo Indians of New Mexico.**—The series of class lectures are directive to the literature. Students will investigate and report on special topics.

ASSOCIATE PROFESSOR STARR

16, 17. **Seminar: General Progress in Anthropological Science.** ASSOCIATE PROFESSOR STARR

24. **Art and the Artist Class.**—From the sociological point of view, and with particular reference to origins. Animal play and rudimentary expressions of art in animal societies. Mutilation, artificial deformation, stimulants, ornament-dress, tattooing, the dance, music, poetry, painting, sculpture, technology, ceremonial, humor, and play among the natural races. The relation of art to work. Art and gaming in Chicago.

Mj. Winter Quarter; 8:30
ASSOCIATE PROFESSOR THOMAS

26. **Social Origins.**—Association and culture in early times and in tribal life. Early food conditions, migrations, and race-crossings. Origins and relations of invention, trade, warfare, art, marriage. Class distinctions, the professions, legal, political, and ecclesiastical institutions. Ethnological reading. An introductory course. For Senior College and Graduate students.

Mj. Autumn Quarter; 8:30
ASSOCIATE PROFESSOR THOMAS

26A. ½Mj. Summer Quarter; 10:30
ASSOCIATE PROFESSOR THOMAS

27. **Mental Development in the Race.**—A genetic study of the relation of mind to individual and social activities. The psychology of mechanical and artistic invention. Relation of language to thought. Systems of number, time, weight, and measure in early society. Development of ideas of causation. Parallelism in development between the individual and the race. Educational meaning of initiation, secret societies, and tapu. Influence of animistic belief, suggestion, and hypnotism in the development of the content of consciousness. The effect of genius on the mental life of a group. Comparison of the mental traits of different races, epochs, and social classes. For Graduate students.

Mj. Autumn Quarter; 9:30
ASSOCIATE PROFESSOR THOMAS

27A. ½Mj. Summer Quarter; 11:30
ASSOCIATE PROFESSOR THOMAS

28. **Sex in Social Organization.**—The influence of the fact of sex in the development of forms of association and of social activity and structure. Based principally on data from the natural races, and from the population of the city of Chicago, with a preliminary consideration of sex in the lower life forms. Prerequisite: *Courses 26, 27, and 30.*

ASSOCIATE PROFESSOR THOMAS
[Not to be given in 1906–7]

30. **Primitive Social Control.**—A study of primitive juridical and political systems and of social conventions. Family, clan, tribal and military organization, totemism, tribal and property marks, tapu, personal property and property in land, periodical tribal assemblies and ceremonies, secret societies, medicine men and priests, caste, blood vengeance, salutations, gifts, tribute, oaths, and forms of offense and punishment, among typical tribes of Australia and Oceania, Africa, Asia, and America.

ASSOCIATE PROFESSOR THOMAS

31. **Origin and Psychology of the Occupations.**—Research course. Prerequisite: *Course 27.*

ASSOCIATE PROFESSOR THOMAS

32. **The Negro in Africa and America.**—Prerequisite: *Course 26.*

Mj. Winter Quarter; 9:30
ASSOCIATE PROFESSOR THOMAS

35. **Egyptian Life and Antiquities.**—(See VIII, 232). Mj
PROFESSOR BREASTED

House Sanitation.—(See VI A, 42.)
Mj. Autumn Quarter; 11:00
PROFESSOR TALBOT

Food Supplies and Dietaries.—(See VI A, 43.)
Mj. Winter Quarter; 11:00
PROFESSOR TALBOT

Administration of the House.—(See VI A, 44.)
Mj. Spring Quarter; 11:00
PROFESSOR TALBOT

Modern Problems in Household Administration.—(See VI A, 45, 46, 47.)

3Mj. Autumn, Winter, and Spring Quarters; Tues., Thurs., 3:00–5:00.

PROFESSOR TALBOT

51. **Contemporary Society in the United States.** — A general survey of natural environment, population and its distribution, industrial and social grouping, typical institutions, etc., designed as a concrete introduction to the study of social problems and as a means of correlating the various social sciences.

Mj. Autumn Quarter; 11:00

PROFESSOR VINCENT

52. **American Cities.** — A study of the modern city with special reference to American municipalities, and of physical conditions, public services, political, industrial, and social groupings. Designed to offer a foundation for the study of special city problems. Expeditions to typical institutions. Mj. Winter Quarter; 11:00

PROFESSOR VINCENT

52A. **Development and Organization of the Press.**—Historical sketch of the American Press followed by an analysis and description of the technical, editorial, and business organization of a modern metropolitan journal, including the systems of general and special news services. Especially for those intending to do newspaper work. Mj. Spring Quarter; 8:30

PROFESSOR VINCENT

53. **The Family.**—The development of the domestic institutions in lower and higher civilizations; social ethics of the family; legal, industrial, educational, and religious problems of the family. Primarily for Graduate students; Senior College students admitted.

Mj. Autumn Quarter; 11:00

PROFESSOR HENDERSON

55A. **Humanitarian Progress in Local Institutions.**—The practical purpose of this course is to supplement theoretical and historical studies in sociology by the observation of social work on the local field. Two hours of classroom study will be devoted to principles, methods, and conditions underlying the civic, charitable, reformatory, and social work to be inspected on the other weekly appointments. Itinerary of inspections, with incidental expenses involved, furnished on application to the Dean.

M. First Term, Summer Quarter

PROFESSOR GRAHAM TAYLOR

56. **The Group of Industrials.**—The labor movement from the viewpoint of Sociology. The influence of habitat, race, inheritance, migration, division of labor, towns, institutions, and conventions on the differentiation and opportunities of the so-called operative class, the actual condition of this group, and their participation in the goods of civilization; the essentials of a truly human existence; the modes by which improved ideals of welfare originate and are diffused; the social system of economic, political, and cultural organization through which the group must enjoy the social inheritance; description, criticism, programme of amelioration. Primarily for Graduate students; Senior College students admitted. Mj. Spring Quarter; 11:00

PROFESSOR HENDERSON

57. **Rural Communities.**—Conditions of social existence in the country; organization for improvement. Primarily for Graduate students; Senior College students admitted.

M. Second Term, Summer Quarter; 10:30

PROFESSOR HENDERSON

58, 59, 60. **Seminar: Methods of Social Amelioration.**—Discussion, reports, and thesis work on contemporary movements for social betterment, chiefly on the basis of studies of Chicago life. For Graduate students.

3Mj. Autumn, Winter, and Spring Quarters; Thursday, 4:00–6:00.

PROFESSOR HENDERSON

61. **Urban Communities.**—Method of analytic study of social organization; comparisons of ancient and modern cities; the system of community bonds and interests; functions of political, economic, and cultural organizations as determined by social interests; the modes of quickening higher wants and the co-operation of public and private agencies in their satisfaction. Primarily for Graduate students; Senior College students admitted. Mj. Winter Quarter; 12:00

PROFESSOR HENDERSON

63. **Ecclesiastical Sociology.**—Methods by which the Church and its societies minister to the welfare of communities. Primarily for Graduate students; Senior College students admitted.

Mj. Autumn Quarter; 12:00

PROFESSOR HENDERSON

64. **Contemporary Charities.**—Studies of the nature; and origin of depressed and defective classes

principles and methods of relief; organization of benevolence. Mj. Spring Quarter; 11:00
PROFESSOR HENDERSON

65. **Social Treatment of Crime.**—Causes of crime; principles of Criminal Anthropology; prison systems; legal factors; juvenile offenders; preventive methods.
M. Second Term, Summer Quarter; 11:30
PROFESSOR HENDERSON

67. **The Structure of English Society.**—A study of the economic, physiological, social, æsthetic, intellectual, and ethical elements in a typical society. PROFESSOR ZUEBLIN
[Not to be given in 1906–7]

67A. **The Economic Basis of Society.**—An examination of the fundamental human want and its relation to the other wants, using Hobson's *The Social Problem* as a text. For Senior College students. Prerequisite: *Political Economy.*
Mj. Spring Quarter, 1906; 11:00
PROFESSOR ZUEBLIN

67B. **The Elements and Structure of Society.**—A continuation of the course, "The Economic Basis of Society." An examination of the physiological, social, æsthetic, intellectual, and moral wants as they are satisfied in American society. Lectures and theses. For Senior College students.
Mj. Summer Quarter; 10:30
PROFESSOR ZUEBLIN

67C. **The Implications of Democracy.**—With special reference to the social institutions of Great Britain, Switzerland, and the United States. The special subject for 1906 will be "Municipal Trading." Lectures and research. For Graduate students. A knowledge of French or German desirable. Mj. Summer Quarter; 11:30
PROFESSOR ZUEBLIN

68. **Philanthropy in its Historical Development.**—Primarily for Graduate students; Senior College students admitted.
Mj. Winter Quarter; 12:00
PROFESSOR HENDERSON
[Not to be given in 1907]

69. **The Elements and Structure of Society.**—A study of the economic, physiological, social, æsthetic, intellectual, and moral elements in American society. The interrelation of the individual and the group. The problem of social progress in a democratic society.
PROFESSOR ZUEBLIN
[Not to be given in 1906–7]

70. **Municipal Sociology.**—The social functions and activities of American cities. The special subject for 1906 will be "Public Education in Chicago." Lectures and research. For Graduate students only.
Mj. Spring Quarter; 12:00
PROFESSOR ZUEBLIN

71. **An Introduction to the Study of Society.**—An elementary course designed to afford a working theory of the nature of society, and to serve as an introduction to the special social sciences of economics, political science, etc. For Juniors. Required of students in commerce and administration. Mj. Spring Quarter; 11:00
PROFESSOR VINCENT

72. **An Introduction to Sociology.**—A rapid historical survey of social philosophy from Plato to Comte, followed by a more detailed examination of current sociological themes. For Senior College and Graduate students.
Mj. Autumn Quarter; 8:30
PROFESSOR VINCENT

73. **Public Opinion.**—A study of social psychology: i. e., the phenomena of the public or ethnic mind. Examination of the theories of Lewes, Tarde, Giddings, Sighele, Brinton, Baldwin, *et al.* Designed for Graduate students. Seniors admitted. Mj. Winter Quarter; 8:30
PROFESSOR VINCENT

74. **The Methodology of the Social Problem.**—Based upon Course 78. A definition of the task of Sociology, and of its relations to the specific social sciences. PROFESSOR SMALL

NOTE.—Not offered in 1906-7, but the subject-matter of Courses 74 and 78 will furnish the Seminar material.

75. **A Synopsis of Sociological Theory.**—Designed to furnish a conspectus of General Sociology.
PROFESSOR SMALL
[Not to be given in 1906–7]

76. **The Elements of Social Dynamics.**—A study of the permanent forces that shape human society. Courses 71, 72, 73, 26, and 74 are presupposed.
PROFESSOR SMALL
[Not to be given in 1906–7]

77. **The Social Philosophy of the English People in the Victorian Era.**
PROFESSOR ZUEBLIN
[Not to be given in 1906–7]

78. **The Development of Sociological Method.**—From Comte to the present time. The object of this

course is to discover the successive statements of the sociological problem, with the premises, methods, and results in the most influential writings, as an introduction to the necessary formulation of the sociological problem.

See note under Course 74.

PROFESSOR SMALL

[Not to be given in 1906–7]

79. **Social Forces in Modern Democracy: United States.**—For Senior College and Graduate students. Mj. Autumn Quarter; 12:00

PROFESSOR SMALL

80. **Social Forces in Modern Democracy: England.**—For Senior College and Graduate students.

Mj. Winter Quarter; 12:00

PROFESSOR SMALL

81. **Social Forces in Modern Democracy: France and Germany.**—Courses 79, 80, 81 apply the methods of sociological analysis for the purpose of discovering the peculiar form, spirit, and content of democracy, so far as it has appeared in the countries treated. These courses aim to test the validity of the abstract sociology outlined in Courses 94, 95, 96. Spring Quarter; 12:00

PROFESSOR SMALL

82, 83, 84. **Seminar: Present Problems in General Sociology.**

3Mj. Autumn, Winter, and Spring Quarters

PROFESSOR SMALL

85, 86, 87. **Seminar: Problems of Social Dynamics.** In this course the facts of Social Psychology are studied with reference to the possibilities of telic progress. 3Mj

PROFESSOR SMALL

[Not to be given in 1906–7]

88, 89, 90. **Seminar: Problems in Methodology and Classification.** PROFESSOR SMALL

[Not to be given in 1906–7]

94. **Survey of General Sociology.** — Introduction to the system of sociology developed in Course 95 and concluded in Course 96. Senior College and Graduate students.

Mj. Autumn Quarter; 9:30

PROFESSOR SMALL

95. **The Conflict of Classes in Modern Society.**—An attempt to explain present social conditions in terms of the general social process analyzed in Course 94. Mj. Winter Quarter; 9:30

PROFESSOR SMALL

96. **The Ethics of Sociology.**—An exhibit of the meaning of sociological analysis for positive ethics. The inconclusiveness of all the categorical theories of ethics is exhibited, and the thesis is sustained that every ethical system with a concrete content necessarily presupposes sociology.

Mj. Spring Quarter; 9:30

PROFESSOR SMALL

100. **Organization of Religious Education.**— Psychology of religion; ethical ideals; principles of instruction; nurture; methods of organization. Primarily for Graduate students; Senior College students admitted.

Mj. Winter Quarter; 11:00

PROFESSOR HENDERSON

In the Winter Quarter Professor Small will give an Open Lecture at 4 o'clock Friday of each week on "The Relations of Sociology to the Other Departments of Social Science." The course is intended for Graduate students who do not make Sociology a principal or secondary subject. It may also serve as a review course for sociological students.

Unique advantages supplemental to the sociological and economic courses at the University are offered by the field-work and practical training in civic, philanthropic, and social work under the auspices of the Chicago Institute of Social Science. Credits will be given for satisfactory work taken under the direction of Professor Graham Taylor, who is Director of the Institute and Professorial Lecturer in the University. With the co-operation of many practical specialists and the charitable, reformatory, civic, and social agencies, both public and private, in and about Chicago, opportunities for the observance of social conditions, the inspection of institutions, and special studies under expert direction are thus opened to students. The aim of the Institute is not only to provide a basis of general knowledge for intelligent interest and participation in whatever promotes the welfare of the community, but also to offer a more technical preparation for professional and volunteer service in specific lines of organized philanthropic and social effort. Courses of training are given each year in "Causes and Treatment of Dependency," "The Care of Delinquents and Defectives," "The Leadership of Children's Club and Outing Work," "Welfare Work" in connection with mercantile and manufacturing establishments, "Institutional Administration," and "Social Tendencies of Modern Industry." A summer school will be conducted the First Term of the Summer Quarter which will supplement Professor Taylor's

lectures on "Humanitarian Progress in Local Institutions" by a carefully arranged itinerary of visits to public institutions, both charitable and reformatory, private philanthropies, social settlements, industrial plants, outing centers, vacation schools, the Juvenile Court, and kindred agencies. Inquiry for particulars may be addressed to the Dean, or to Professor Graham Taylor, Chicago Commons, 180 Grand Avenue, Chicago.

THE COLLEGE OF RELIGIOUS AND SOCIAL SCIENCE

The College of Religious and Social Science is an organization of undergraduate courses conducted at the University and leading to the degree of Ph.B. It is co-ordinate with the other Colleges of the University. Circulars of information will be sent on application to the Deans of the Divinity School, University of Chicago. The courses in Social Science are under the direction of the instructors in Sociology, and students are permitted to avail themselves of the lectures given by specialists in the Institute of Social Science and Arts, and to receive credits for work done in the Institute.

VI A. THE DEPARTMENT OF HOUSEHOLD ADMINISTRATION

OFFICERS OF INSTRUCTION

A. INSTRUCTORS ATTACHED TO THE DEPARTMENT OF HOUSEHOLD ADMINISTRATION

MARION TALBOT, A.M., LL.D., *Professor of Household Administration.*
ALICE PELOUBET NORTON, A.M., *Assistant Professor of Household Administration.*
SOPHONISBA PRESTON BRECKINRIDGE, Ph.D., J.D., *Instructor in Household Administration*

B. INSTRUCTORS IN OTHER DEPARTMENTS OFFERING INSTRUCTION IN THIS DEPARTMENT

CHARLES RICHMOND HENDERSON, Ph.D., D.D., *of the Department of Sociology.*
CHARLES ZUEBLIN, Ph.B., D.B., *of the Department of Sociology.*
WILLIAM ISAAC THOMAS, Ph.D., *of the Department of Sociology.*
GEORGE EDGAR VINCENT, Ph.D., *of the Department of Sociology.*
ALEXANDER SMITH, Ph.D., *of the Department of Chemistry.*
HERBERT NEWBY McCOY, Ph.D., *of the Department of Chemistry.*
LAUDER WILLIAM JONES, Ph.D., *of the Department of Chemistry.*
FRANK RATTRAY LILLIE, Ph.D., *of the Department of Zoölogy.*
DAVID JUDSON LINGLE, Ph.D., *of the Department of Physiology.*
EDWIN OAKES JORDAN, Ph.D., *of the Department of Bacteriology.*
NORMAN MacLEOD HARRIS, M.B., *of the Department of Bacteriology.*
LILLIAN SOPHIA CUSHMAN, *of the School of Education.*
ELIZABETH EUPHROSYNE LANGLEY, *of the School of Education.*
CLARA ISABEL MITCHELL, *of the School of Education.*
ANNETTE BUTLER, *of the School of Education.*

FELLOW, 1905-6

EDNA DAISY DAY, S.B., S.M.

INTRODUCTORY

The courses in this Department are planned to give students (1) a general view of the place of the Household in society as a means of liberal culture; (2) training in the rational and scientific administration of the home as a social unit; (3) preparation to serve as teachers of Home Economics, Domestic Science, and Household Arts, or as social workers in institutions whose activity is largely expressed through Household Administration. The regular courses of the Department are supplemented by courses offered by instructors in other Departments, who will aid in the administration of the Department. Special attention is called to the courses of the Departments of Sociology, Geography, Chemistry, Zoölogy, Physiology, and Bacteriology, and to the announcements of the School of Education.

In general the courses are open to Graduate and Senior College students and to Unclassified students who have had special preliminary training. Certain courses are also open as electives to Junior College students. In the case of students desiring to pursue a special line of work or to fit themselves for some particular field of activity, the instructors will give assistance in organizing courses of study. The work of this as of other Departments may be used under the rules of the University toward fulfilling the requirements for the different degrees. No special certificate is awarded, but an official statement of courses satisfactorily completed is granted on request.

Students who expect to be candidates for the Master's or Doctor's degree and to take their principal or secondary work in the Department of Household Administration should secure the approval of the Department before beginning work.

Opportunities are afforded for gaining practical experience in housekeeping, lunch-room management, marketing, household accounting, and teaching. There are frequent occasions for active participation in such philanthropic work as supplements the instruction of the classroom. In addition to the special library of the Department there are closely related collections of books in the libraries of the Departments of Economics, Sociology, Chemistry, Biology, and of the School of Education.

The Household Administration Club meets fortnightly to discuss important new literature, to present results of investigations carried on by instructors and students in the Department, and to hear specialists on topics not fully treated in the regular curriculum.

One Fellowship is assigned the Department for 1906–7.

COURSES OF INSTRUCTION

42. **House Sanitation.**—This course deals with the house as a factor in health and includes a study of the following topics: situation, surroundings, ventilation, heating, drainage, plumbing, lighting, and furnishing. Special attention will be given to modern conceptions of cleanliness, and to the investigation of general sanitary conditions from a practical and scientific standpoint, and with special reference to the needs of the community, the household, and the school.

Mj. Autumn Quarter; 11:00
PROFESSOR TALBOT

43. **Food Supplies and Dietaries.**—The nutritive and money values of foodstuffs; the application of heat to food principles; adulterations; methods of preservation; sanitary and economic aspects of food; popular misconceptions as to foods.

Mj. Winter Quarter; 11:00
PROFESSOR TALBOT

44. **Administration of the House.**—This course will consider the order and administration of the house with a view to the proper apportionment of the income and the maintenance of suitable standards. It will include a discussion of the domestic-service problem. Open to Junior College students. Mj. Spring Quarter; 11:00
PROFESSOR TALBOT

45, 46, 47. **Modern Problems in Household Administration.**—This work will be conducted only for students capable of carrying on independent investigations. It will deal with new and unsettled problems whose solution will help place the subject of Household Administration on a more secure scientific basis. The topics assigned will be chemical, physiological, bacteriological, economic, or sociological, according to the preferences and training of the individual students.

3Mj. Autumn, Winter, and Spring Quarters; Tues., Thurs., 3:00–5:00.
PROFESSOR TALBOT

50, 51, 52, 53. **Special Research.**—Open only to students who have had special training and experience.

4Mj. Summer, Autumn, Winter, and Spring Quarters.
THE INSTRUCTORS IN THE DEPARTMENT

122. **Food and Dietetics.**—The nature, nutritive constituents, and relative values of foods; typical processes of food production; the cost of food; dietaries. Mj. Autumn Quarter

Lectures: Mon., Thurs., Fri., 9:30.
Laboratory: Tues., Wed., 2:00–4:00 & 8:30–10:30.
ASSISTANT PROFESSOR NORTON

123. **The Application of Heat to Food Materials.**—The methods by which heat is applied to food, and the changes caused in the different food constituents; household fuels and their uses; cooking apparatus and the principles of its con-

struction; primitive and modern methods of cookery. Prerequisite: *Course 122 or Course 43 and Course 121 or equivalent.*

Mj. Winter Quarter

Lectures: Wed., Fri., 11:00.

Laboratory: Tues., Wed., 2:00–5:00.

ASSISTANT PROFESSOR NORTON

124. **Special Methods in the Preparation of Food.**—Advanced work in experimental cookery.

½Mj. Autumn Quarter

Lecture and Laboratory: Thurs., Fri., 2:00–5:00.

ASSISTANT PROFESSOR NORTON

125. **Chemistry of Foods.**—The different food principles, with methods of identifying and separating them; food adulterations and household methods for their detection. Prerequisite: *General chemistry and Course 122, or Course 43.*

Mj or ½Mj. Summer Quarter

Hours to be arranged.

Lectures and Laboratory: Thurs., Fri.., 2:00–5:00.

ASSISTANT PROFESSOR NORTON

126. **Special Problems in Food Chemistry.**—Laboratory work. Individual problems assigned for investigation. Prerequisite: *Course 125 and elementary organic chemistry.*

Mj or ½Mj. Spring Quarter

Hours to be arranged.

ASSISTANT PROFESSOR NORTON

127. **Evolution of the House.**—The development of the modern house from primitive conditions; modern household problems of furnishing, equipment and care. Lectures and Laboratory.

½Mj. Autumn Quarter 11:00

ASSISTANT PROFESSOR NORTON

128. **The Teaching of Home Economics.**—The purpose and method of the work; courses of study; school equipments; the relation of the subject to other studies and to the life of the school; practice teaching and laboratory work.

Mj. Summer Quarter

Mj. Winter Quarter; 11:00

ASSISTANT PROFESSOR NORTON

10. **The Organization of the Retail Market.**—An elementary course intended to familiarize the student with the machinery of trade with which the householder comes into direct contact. The following topics will be considered: the development of present methods of distribution from mediæval forms; the present specialized system, as illustrated by selected industries, which deal with food, clothing, and household equipment; the departmental and catalogue store; and the employment agency as the means by which a distribution of domestic labor is effected. Visits will be made to typical distributive establishments. Open to Junior College students. Prerequisite: *Nine Majors.*

Mj. Summer Quarter; 8:00

DR. BRECKINRIDGE

11. **The Consumption of Wealth.** — Standards of living; necessaries for life and for efficiency; comforts; luxury and extravagance; saving and spending. Organized efforts among consumers to control production; co-operation; the Consumers League; trade unions; legislation; municipalization. Prerequisite: *Nine Majors.*

Mj. Autumn Quarter; 8:30

DR. BRECKINRIDGE

20. **The State in Relation to the Household.** — A course intended to review the relations between the householder and the public, as represented by federal, state, or municipal authority. The law requiring the head of a family to furnish support, and legislation tending to maintain the unity of the family will be considered. Regulations concerning the food supply, the materials used in clothing and furnishings, and the structure and care of the building will be studied, in order to formulate the principles upon which a proper degree of individual freedom may be adjusted to the necessary amount of public control. Open to Senior College and Graduate students.

Mj. Spring Quarter; 8:30

DR. BRECKINRIDGE

21. **The Legal and Economic Position of Women.**—A study of the status of women with reference to their property; the effect of marriage; their share in the control of children; their opportunities as wage-earners and producers; their functions as householders and consumers. Open to Senior College and Graduate students.

Mj. Winter Quarter; 8:30

DR. BRECKINRIDGE

VII. THE DEPARTMENT OF COMPARATIVE RELIGION

OFFICERS OF INSTRUCTION

GEORGE BURNAM FOSTER, *Professor of the Philosophy of Religion.*

GEORGE FOOTE MOORE, D.D., LL.D. (*Professor in the Harvard Divinity School*), HASKELL *Professorial Lecturer on Comparative Religion.*

CHARLES CUTHBERT HALL, D.D., LL.D. (*President of Union Theological Seminary*), BARROWS *Professorial Lecturer on Comparative Religion.*

EDMUND BUCKLEY, PH.D., *Docent in Comparative Religion* (Summer Quarter).

INTRODUCTORY

The regular work in the Department is devoted to the three branches of Comparative Religion, viz., History and Philosophy of Religion, and Comparative Theology. An elementary major course is offered to all who wish to gain a survey of the field. Special courses on the history of primitive beliefs, the Indo-European Religions, and the Semitic Religions provide for a year's classroom work. At this stage the student is prepared for courses in the Introduction to Religion and in the Philosophy of Religion. The research courses provide for advanced investigation in which all the resources of the student are demanded. Courses 1–8 and the research courses are required when Comparative Religion is taken as a major subject for the degree of Doctor of Philosophy, and Courses 1–4, two courses selected from Nos. 5–8, and one research course are required of one who takes Comparative Religion as a minor subject for the same degree. Equivalents for these courses to the number of three Majors, selected from other related Departments of the University, will be accepted, but the selection must be approved by this Department before the student undertakes the work, and their credit value will not always be accepted as equal to courses in the Department itself.

Two "Lectureships" on the *Relations of Christianity to the other Religions*, established by the late Mrs. Caroline E. Haskell, are under the direction of this Department. The "Haskell Lectures" are delivered at the University yearly. The "Barrows Lectures" are delivered every three years in cities of India.

University Fellowships, yielding incomes of from $520 to $320, are open to students in Comparative Religion on equal terms with students in other Departments and are assigned yearly in accordance with the University regulations governing Fellowships.

The rooms of the Department are in the Haskell Oriental Museum, where the collections of illustrative materials for the study of religions are gathered and arranged for the use of students. The Buckley collection of religious objects of Shinto and Japanese Buddhism, unequaled in America, affords a valuable body of material for the study of Ethnic Religion. Maps, photographs, casts, and a carefully selected library of the standard works, constantly enlarged by the addition of the newest books in the field, are at the disposal of students. The libraries and collections of the Departments of Semitic Languages, including Egyptology, Assyriology, etc., of Biblical Studies, of Church History and of Theology, contained in the same building, greatly enlarge the working facilities of the Department.

COURSES OF INSTRUCTION *

1. **An Outline History of Religion.**
2. **Religions of Primitive Peoples.**
3. **Religions of the Semites.**—Babylonia, Egypt, Syria and Palestine, Phœnicia, Islam.
4. **Religions of the Indo-European Peoples.**—India, Persia, Greece and Rome, Kelts and Teutons. The course will be limited this term to a study of Buddhism.
5. **Introduction to Comparative Religion.**
6. **History of the Philosophy of Religion.** Mj
   PROFESSOR FOSTER
7. **The Science of Religion.**
   DR. BUCKLEY
8. **The Philosophy of Religion.**
   DR. BUCKLEY
9. **Fundamental Problems of the History of Religion.** (Haskell Lectures.) No credit is given for this course.

*Courses in this Department are primarily for Graduate students, and are open to undergraduates only after consultation with the instructor.

10. **Comparative Theology.**—Research.

11. **History of Religious Thought from the Reformation to Kant.** Mj. Autumn Quarter, 1906
PROFESSOR FOSTER

12. **Kant's Theory of Religion.**
Mj. Winter Quarter, 1907
PROFESSOR FOSTER

13. **Philosophy of Religion from Kant to Hegel.** Mj
PROFESSOR FOSTER

14. **Hegel's Philosophy of Religion.**
Mj. Spring Quarter, 1907
PROFESSOR FOSTER

15. **Schleiermacher's "Glaubenslehre."**
Mj. Autumn Quarter, 1907
PROFESSOR FOSTER

16. **Religious Thought from Schleiermacher and Hegel to Ritschl.**
PROFESSOR FOSTER

17. **Albrecht Ritschl and His School.**
Mj. Autumn Quarter, 1907
PROFESSOR FOSTER

18. **English Philosophy of Religion.** Mj
PROFESSOR FOSTER

19. **Philosophy of Religion, I.**—The Knowledge Problem. Mj. Winter Quarter, 1906
PROFESSOR FOSTER

20. **Philosophy of Religion, II.**—The Worth Problem.
Mj. Spring Quarter, 1906
PROFESSOR FOSTER

21. **The Essence of the Christian Religion.**
Mj. Summer Quarter, 1907
PROFESSOR FOSTER

22. **The Truth of the Christian Religion.**
Mj. Spring Quarter, 1907
PROFESSOR FOSTER

23. **The Dogmatics of the Christian Religion.**
Mj. Winter Quarter, 1907
PROFESSOR FOSTER

24. **The Ethics of the Christian Religion.**
Mj. Autumn Quarter, 1906
PROFESSOR FOSTER

25. **Relation Between Religion and Morality.**
Mj. Autumn Quarter, 1906
PROFESSOR FOSTER

26. **Kaftan's "Dogmatik".** Spring Quarter, 1906

COURSES IN RELATED DEPARTMENTS

The following courses in other Departments deal with subjects closely related with the work in the Department of Comparative Religion, and under certain restrictions will be accepted as work done in the Department itself:

I, 45. **The Evolution of Morality.**
PROFESSOR TUFTS

IA, 22. **Psychology of Religion.** DR. AMES

VI, 27. **Development of Mind in the Race.**
PROFESSOR THOMAS

VI, 30. **Primitive Social Control.**
PROFESSOR THOMAS

VIII, 48. **Form and Content of Early Old Testament Traditions.** PROFESSOR W. R. HARPER

VIII, 38. **Prophecy and the History of Prophecy.**
PROFESSOR W. R. HARPER

VIII, 42. **Hebrew Philosophy and Ethics.**
PROFESSOR W. R. HARPER

VIII, 54. **Old Testament Theology.**
PROFESSOR W. R. HARPER

VIII, 120. **Rabbinical Literature and Life.**
PROFESSOR HIRSCH

VIII, 164. **Assyrian Syllabaries and Mythological Inscriptions.** PROFESSOR R. F. HARPER

VIII, 166. **Babylonian Psalms, Prayers, and Addresses.** PROFESSOR R. F. HARPER

VIII, 168. **Religious Texts.**
PROFESSOR R. F. HARPER

VIII, 190. **Arabic Treatises on Mohammedan Eschatology.** PROFESSOR JEWETT

VIII, 200. **Life of Mohammed.** PROFESSOR JEWETT

VIII, 202. **The Qurân in English.**
PROFESSOR JEWETT

VIII, 204. **The Spread of Islam.**
PROFESSOR JEWETT

VIII, 218. **Pyramid Texts.**
PROFESSOR BREASTED

X, 13. **Readings in the Upanishads.** DR. MEYER

X, 26. **Vedic Seminar.** DR. MEYER

XI, 42. **Introduction to Greek Mythology.**
ASSOCIATE PROFESSOR OWEN

XI, 63. **Greek Philosophical Literature.**
PROFESSOR SHOREY

XII, 53. **Roman Religion.**
ASSISTANT PROFESSOR LAING

XIV, 62. **The Niebelungenlied.**
ASSOCIATE PROFESSOR VON KLENZE

IX, 69. **Doctrine of Atonement in the New Testament.**
PROFESSOR BURTON

XLIV, 22. **Theological Significance of Leading Movements of Thought in the Nineteenth Century.**
ASSISTANT PROFESSOR SMITH

XLV, 50. **Development of Recent Religious Thought.**
PROFESSOR HULBERT

XLV, 51. **Religious Movements of the Eighteenth Century.** PROFESSOR HULBERT

VIII. THE DEPARTMENT OF SEMITIC LANGUAGES AND LITERATURES

OFFICERS OF INSTRUCTION

*WILLIAM RAINEY HARPER, PH.D., D.D., LL.D., *Professor and Head of the Department of the Semitic Languages and Literatures.*
ROBERT FRANCIS HARPER, PH.D., *Professor of the Semitic Languages and Literatures.*
EMIL GUSTAV HIRSCH, A.M., D.D., LL.D., LIT.D., *Professor of Rabbinical Literature and Philosophy.*
IRA MAURICE PRICE, PH.D., LL.D., *Professor of the Semitic Languages and Literatures.*
JAMES RICHARD JEWETT, PH.D., *Professor of the Arabic Language and Literature.*
JAMES HENRY BREASTED, PH.D., *Professor of Egyptology and Oriental History; Director of Haskell Oriental Museum.*
HERBERT LOCKWOOD WILLETT, PH.D., *Assistant Professor of the Semitic Languages and Literatures.*
JOHN MERLIN POWIS SMITH, PH.D., *Instructor in the Semitic Languages and Literatures.*

EDGAR JOHNSON GOODSPEED, PH.D., *Assistant Professor of Biblical and Patristic Greek; Assistant Director of Haskell Oriental Museum.*

FELLOWS, 1905-6

CHARLES ELLSWORTH HORNE, A.B., A.M. ROWLAND HECTOR MODE, A.B., A.M.
ROBERT J. McKNIGHT, A.B.

INTRODUCTORY

HEBREW LANGUAGE AND LITERATURE

It is believed that with close application the student may gain a practical knowledge of the Hebrew language within a comparatively short time. The courses in beginning Hebrew and in Hebrew History are arranged for students in the Divinity School who desire to lay a foundation for critical and exegetical work in the Old Testament, and likewise for those who are contemplating a more extended study of the Semitic languages. The first course covers the Elements of the Hebrew Grammar and secures a vocabulary of three to four hundred words. In a second course, besides a large amount of reading, in connection with which the vocabulary of the student is increased, the principles of Hebrew Syntax are studied. After this course the student is permitted to select any of the courses offered in the Department in which a knowledge of Hebrew is required.

The more advanced courses cover the principal portions of the Old Testament considered from every point of view. In this work two things are kept in mind:

1. The securing of an acquaintance with all the more important problems of Old Testament literature and thought.
2. A scientific method of work which will enable the student to carry on for himself original investigation.

RABBINICAL LANGUAGE AND LITERATURE

In the Rabbinical Section the courses are intended to meet the requirements of (1) students in Semitic Philology; (2) students in New Testament Literature, Comparative Religion, History, and Philosophy; and

*Died January 10, 1906.

(3) students intending to prepare for the Jewish ministry. It is believed that in connection with the courses in the Departments of Semitic Languages and Literatures, History, and Philosophy in this University' those in Rabbinical literature will enable candidates for the Jewish ministry to equip themselves most thoroughly for their vocation.

ASSYRIAN LANGUAGE AND LITERATURE

It is the purpose of this section to study the Assyro-Babylonian language and literature both from the standpoint of the grammar and lexicon, with special reference also to comparative Semitic lexicography, geography, and institutions; and also as one of the most important helps, lexicographically, historically, and geographically, to scientific work in any of the other Semitic languages or literatures.

ARABIC LANGUAGE AND LITERATURE

The courses offered in Arabic are intended to cover quite minutely the grammar and syntax of the language, whether the work is done primarily for the help afforded the student of Hebrew or Assyrian, or for a more detailed study of Arabic grammar for its own sake. Special attention is given to the Qurân, and provision is also made for courses of an extended character in Arabic commentary, history, geography, and inscriptions. While the majority of students doubtless study Arabic for the light which it throws upon Hebrew grammar, it is believed that the field of Arabic literature is one which is more and more deserving of the attention of American students. Particular attention is given to the comparative aspects of Arabic grammar, both etymology and syntax.

HEBREW HISTORY

The courses in Hebrew History provide for a consideration of the general field of Semitic antiquity with especial reference to its bearing upon Israel, and a thorough study of the entire range of Israelitish history, with special consideration of difficult problems.

EGYPTIAN LANGUAGE, LITERATURE, AND ARCHÆOLOGY

The time seems to have come for American students to direct their attention, at least in some degrees toward study in the great Egyptian field. An opportunity is therefore offered, (1) to those who wish merely to gain a general conception of the Egyptian field, (2) but also to those who may wish to give special attention to Egyptian literature or archæology. The original materials accessible to the student here are unusually plentiful. They comprise: (1) the Egyptian collection of the Art Institute; (2) the collection of the Field Columbian Museum; (3) the collections in Haskell Museum.

ARRANGEMENT OF WORK

The work of the student ordinarily will be arranged according to one of five plans:

I. The preliminary work includes courses in the Hebrew language aggregating four Majors. These courses viz., (*a*) 1; (*b*) 2, or 4; (*c*) 22, or 24, or 36, or 38; (1) constitute the work in Hebrew prescribed for those students in the Graduate Divinity School who desire to secure a knowledge of the language, and (2) serve as the basis for more advanced work in the Semitic Languages and Literatures, or in the Old Testament Literature and Theology. Students who have already performed this work before entering the University of Chicago will receive credit for the same upon examination.

II. Old Testament Literature and Theology, when presented as a secondary subject for a Doctor's degree will be understood to include, in addition to the preliminary courses, work amounting to six Majors, which shall be systematically arranged, and be approved by the Head of the Department. The student is recommended to select either (1) three historical courses (viz., 113, 114, 115), with three courses in exegetical work selected from the courses offered, or (2) work made up of Courses 36, 38, 42, 48, 50, 54, 80–82; or (3) work in Rabbinical literature and theology, selected from Courses 120–139.

III. When a secondary subject is offered in Semitic Languages and Literatures, the student may select either Aramaic, Arabic, Assyrian, or Egyptian, in an amount equal to at least six Majors.

IV. Old Testament Literature and Theology, when presented as a principal subject, will be understood to include (1) a thorough knowledge of the Hebrew language, including syntax and lexicography, and a good acquaintance with biblical Aramaic and Syriac; (2) an ability to read any part of Hebrew literature; (3) a knowledge of Hebrew history in all its periods, and of ancient history, especially Egyptian, Assyro-Babylonian Persian, and Greek in its bearing upon the Old Testament; (4) an acquaintance with the chronological development of Old Testament literature in its various forms of legislation, prophecy, and wisdom; also a knowledge of the origin and growth of the canon, of the text, and of the principles of Old Testament interpretation; (5) a familiarity with the history of the Hebrew religion and the development of the theological ideas of the Hebrews; (6) some familiarity with the Rabbinical literature and a general acquaintance with New Testament literature, with special reference to the use made of the Old Testament in the New Testament.

V. When the student selects for his principal subject the Semitic languages, he will be expected to have

gained a working knowledge of Aramaic, Assyrian, and Arabic, in addition to Hebrew. He will be permitted to lay special emphasis upon either Hebrew, Arabic, Assyrian, or Egyptian, and in the special field which he thus selects the amount of work required will be determined in part by the character of the field itself, and also in part by the general scope of his work. In any case, work in comparative grammar and comparative lexicography will be expected. The total amount of work required for a degree cannot be stated in definite form.

COURSES OF INSTRUCTION

REMARK: In the Semitic Department all courses are intended primarily for Graduate and Divinity students, but they may be taken by Senior College students who are prepared therefor.

I. HEBREW LANGUAGE AND OLD TESTAMENT LITERATURE

1. LINGUISTIC COURSES

1. **Hebrew Language.**—Gen., chaps. 1–8; including the grammatical principles of the language, the acquisition of a vocabulary, and translation of English into Hebrew. The ground covered in Harper, *Introductory Hebrew Method* and *Elements of Hebrew.*

   This course is given twice each year, viz.:

   DMj or 2DM. Summer Quarter; 8:00 and 11:30. PROFESSOR BREASTED, AND DR. SMITH

   2Mj. Autumn and Winter Quarters, 1906, 1907; 2:00.

   ASSISTANT PROFESSOR WILLETT, AND DR. SMITH

2. **Historical Hebrew.** *The Books of Samuel.*—Critical translation of portions, with a study of Hebrew Syntax. Continuation of Course 1.

   Mj. Autumn Quarters, 1906, 1907; 8:30
   ASSISTANT PROFESSOR WILLETT

3. **The Book of Joshua.**—Critical translation, and review of grammar. M. First Term. Summer Quarter, 1906. ASSISTANT PROFESSOR WILLETT

4. **The Books of Kings.**—Critical translation of the more important portions, with special reference to etymology and chronology.

   Mj. Spring Quarter, 1906
   PROFESSOR PRICE

5. **Deuteronomy.**—A critical translation, with special reference to syntax.

   Mj. Winter Quarter, 1907
   PROFESSOR PRICE

8. **Hebrew Sight Reading.** The Prophetic Books.
   DR. SMITH

10. **Proverbs.**—A critical reading of selected portions with special reference to Hebrew Lexicography.
    PROFESSOR R. F. HARPER

12. **Advanced Hebrew Grammar.**—Etymology.

    M. Second Term, Summer Quarter, 1906
    PROFESSOR PRICE

13. **Advanced Hebrew Grammar.**—Syntax.

    M. First Term, Summer Quarter, 1906
    PROFESSOR PRICE

2. CRITICAL AND EXEGETICAL COURSES

A. Hebrew

20. **Books of Kings and Their Parallel Assyrian Records.**—Historical and critical work.
    PROFESSOR PRICE

22. **Isaiah, chaps. 1–39.**—Critical reading of the material, with an interpretation of the prophecies, and a study of the life and times of Isaiah.

    Mj. Spring Quarter, 1907
    PROFESSOR PRICE

23. **Isaiah, chaps. 40–66.**—A critical reading of the material with a study of the prophecies as illustrating exilic and post-exilic conditions.

    Mj. Spring Quarter, 1906
    PROFESSOR PRICE

24. **Jeremiah.**—Attention will be given to the political conditions in Judah's decline, and the waning of religious life as a background of Jeremiah's utterances; the book will be arranged and interpreted in chronological order.

    Mj. Spring Quarter, 1908
    PROFESSOR PRICE

26. **Ezekiel.**—Condition of the exiles; Babylonian government; Ezekiel's character; analysis and translation of selected sections.

    Mj. Summer Quarter, 1906
    PROFESSOR PRICE

28. **The Later Minor Prophets.**—Critical and exegetical study of the language, contents, and teachings of these prophets.

    Mj. Winter Quarter, 1907
    DR. SMITH

30. **The Psalter.**—The formation of the Psalter; characteristics of the Psalms as to style and authorship; critical translation of selected Psalms; their classification and use.

    Mj. Summer Quarter, 1907
    PROFESSOR PRICE

32. **The Psalms.**—A study of selected Psalms from the point of view of their language, structure, contents, and date.

    PROFESSOR W. R. HARPER

34. **Hebrew Legislative Codes.**—Comparative study of portions of these codes with reference to (*a*) their interrelations, (*b*) their style and vocabulary, (*c*) their contents and meaning.
PROFESSOR W. R. HARPER

35. **The Book of Deuteronomy.**—A study of (*a*) the origin and contents of the Deuteronomic Code; (*b*) the causes and results of the reformation under Josiah, and an exegetical study of certain portions of Deuteronomy.
PROFESSOR W. R. HARPER

36. **The Levitical Code.**—A critical reading and study of the Book of Leviticus and related material with reference (*a*) to its origin and contents, (*b*) to the work of Ezra, (*c*) to the purpose and significance of the Code.
PROFESSOR W. R. HARPER

38. **Prophecy, and the History of Prophecy.**—A study of prophecy upon the basis of a classification of the prophetic material according to (1) the historical periods, (2) the work of the prophet, (3) the principal ideas of prophecy.
PROFESSOR W. R. HARPER

40. **Messianic Prophecy.**—A study in chronological order of the Messianic prophecies of the Old Testament. Mj. Spring Quarter, 1908
PROFESSOR PRICE

42. **Hebrew Philosophy and Ethics.**—A study of the contents of Job, Proverbs, Ecclesiastes, and the later Psalms, including a study of Hebrew Philosophy in general. [This course is open only to those who are able to read Hebrew fluently.]
PROFESSOR W. R. HARPER

44. **Job.**—A study of the literary form, the thought content, the linguistic peculiarities, and the chief teachings of the book.
Mj. Autumn Quarter, 1906
DR. SMITH

46. **Proverbs.**—Reading and interpretation of selected portions, with a study of (*a*) the origin of the various collections, (*b*) the poetical form, (*c*) the linguistic characteristics. Mj.
PROFESSOR W. R. HARPER

47. **Ecclesiasticus.**
Mj. Spring Quarter, 1907
DR. SMITH

48. **The Form and Contents of Early Old Testament Traditions.**—(1) A study of the several documents of which the Hexateuch is composed; and (2) a comparison of the early Hebrew traditions with similar traditions of other peoples.
Mj. Winter Quarter, 1907
DR. SMITH

50. **Micah.**—A Seminar.
Mj. Autumn Quarter, 1906
DR. SMITH

53. **Isaiah 1–12.** A Seminar.
Mj. Summer Quarter, 1906
PROFESSOR PRICE

54. **Seminar in Old Testament Theology.**
A. The Doctrine of God.
PROFESSOR W. R. HARPER
B. The Doctrine of Sin.
PROFESSOR W. R. HARPER
C. The Doctrine of Atonement.
PROFESSOR W. R. HARPER

55. **The Doctrine of the Future Life in the Old Testament.**—Seminar.
PROFESSOR W. R. HARPER

56. **The Religion of Israel prior to the Exile.**
Mj. Summer Quarter, 1906
DR. SMITH

57. **The Religion of the Jews.**
Mj. Summer Quarter, 1907
DR. SMITH

B. English

60. **Isaiah, chaps. 1–39.**—Arrangement in chronological order, analysis, and interpretation of the different prophecies.
M. First Term, Summer Quarter, 1906
ASSISTANT PROFESSOR WILLETT

61. **Isaiah, chaps. 40–66.**—In this course the effort will be made to master the contents of the chapters and to study the progress of the thought.
M. Second Term, Summer Quarter, 1908
ASSISTANT PROFESSOR WILLETT

62. **Jeremiah.**
M. First Term, Summer Quarter, 1906
ASSISTANT PROFESSOR WILLETT

64. **The Psalter** (in English).
M. First Term, Summer Quarter, 1907
ASSISTANT PROFESSOR WILLETT

65. **The Book of Job.**
M. Second Term; Summer Quarter, 1907
ASSISTANT PROFESSOR WILLETT

66–68. **The Priestly Work in the Old Testament.**
66. *Priest Codes;* the Hebrew Laws, their form and contents, especially Deuteronomy and Leviticus.
PROFESSOR W. R. HARPER

67. *Priest History,* especially the Books of Chronicles, Ezra, and Nehemiah.
PROFESSOR W. R. HARPER

68. *Priest Psalms;* that is, the Psalms as they were used for worship.
PROFESSOR W. R. HARPER

69. **History of the Priest System;** that is, a rapid historical résumé of the entire priestly activity.
PROFESSOR W. R. HARPER

70. **Prophecy and the History of Prophecy.**—Same as Course 38, but conducted for undergraduate students who have no knowledge of Hebrew.
PROFESSOR W. R. HARPER

72. **Hebrew Philosophy and Ethics.**—Same as Course 42, but conducted for undergraduate students who have no knowledge of Hebrew.
PROFESSOR W. R. HARPER

74. **Biblical Apocalyptic.**—A study of apocalyptic in the Old Testament, with special reference to the Book of Daniel, and comparison of the extra-canonical apocalypses with the Book of Revelation. Mj. Summer Quarter, 1907
ASSISTANT PROFESSOR WILLETT

3. INTRODUCTION, ARCHÆOLOGY, AND HISTORY

80–82. **General Survey of Old Testament Literature and History.** — In these courses an attempt will be made to present under four divisions, namely: (1) the beginnings to the disruption of the kingdom; (2) the disruption of the kingdom to the times of Josiah; (3) from the times of Josiah to the times of Ezra; (4) from the times of Ezra to the times of the Maccabees; (*a*) the particular historical events with their relations to contemporaneous history; (*b*) the literary documents; (*c*) the social, industrial, and political data; (*d*) the facts concerning the various religious institutions; (*e*) the general progress of religious thought. These courses are intended to serve as an introduction to the various departments of Old Testament study, and are *required of every candidate for the degree of D.B.* who does not elect Hebrew. (Course 84 may be substituted for Course 80.) Each course is an independent study and may be taken separately.

80. *Beginnings of Old Testament Literature and History,* including a study of Prophecy.
Mj. Autumn Quarter, 1906
DR. SMITH

81. *The Priestly Element in the Old Testament.*
Mj. Spring Quarter, 1906
PROFESSOR PRICE
Mj. Summer Quarter, 1906
DR. SMITH

82. *The Wisdom Element in the Old Testament.*
Mj. Spring Quarter, 1907
DR. SMITH

84. **The Origin, Growth, and Character of the Prophetic Books.**
A required course. See Courses 80–82.
Mj. Winter Quarter, 1907
PROFESSOR PRICE

86. **History of the Canon and Text of the Old Testament.**—A Seminar.
Mj. Winter Quarter, 1907
PROFESSOR PRICE

88. **General Introduction to the Textual Criticism of the Old Testament.**
Mj. Autumn Quarter, 1906; 9:30
PROFESSOR HIRSCH

90. **Methodology.**—In this Seminar the aim will be (1) to define the various departments of Old Testament research; (2) to ascertain the relations of these departments to each other; (3) to specify the natural and logical order in which these departments should be taken up; and (4) to indicate the principles and methods which should control research in these departments. A Seminar. Mj. Winter Quarter, 1908
PROFESSOR PRICE

92. **History, Principles, and Methods of Old Testament Interpretation.**—A Seminar.
Mj. Winter Quarter, 1909
PROFESSOR PRICE

96. **Life in Old Testament Times.** — A study of the elements which made up the everyday social, commercial, political, and religious life of the Hebrews and their most influential neighbors.
Mj. Spring Quarter, 1909
PROFESSOR PRICE

98. **Palestinian Geography and Archæology.**
Mj. Autumn Quarter, 1908
ASSISTANT PROFESSOR WILLETT

100. **Palestinian Life and Government.**
Mj. Summer Quarter, 1907
ASSISTANT PROFESSOR WILLETT

102. **Modern Discoveries and the Old Testament.**
Mj. Spring Quarter, 1907
PROFESSOR PRICE

104. **Egyptian Archæology and the Old Testament.**
PROFESSOR BREASTED

110. **Hebrew History to the Times of Josiah.**
Mj. Summer Quarter, 1908
ASSISTANT PROFESSOR WILLETT

113, 114. **History of the Hebrews.**—These two courses cover in successive steps the history of Israel from the beginning to the Maccabean age. Each course is, however, an independent study, and may be taken separately.

113. *From the Beginnings to Solomon.*
Mj. Autumn Quarter, 1906
ASSISTANT PROFESSOR WILLETT

114. *From Solomon to Nehemiah.*
Mj. Autumn Quarter, 1907
ASSISTANT PROFESSOR WILLETT

115. **The Rise of the Jewish State.**—A special study of the documentary sources and the problems of the period from the beginning of the exile to the Maccabean age.
Mj. Autumn Quarter, 1908
ASSISTANT PROFESSOR WILLETT

II. RABBINICAL LANGUAGE AND LITERATURE

120. **General Introduction to Rabbinical Literature and Life.** Mj. Spring Quarter, 1906
PROFESSOR HIRSCH

122. **Mishnah.**—Reading and interpretation of selected Tracts of the Mishnah. Mj
PROFESSOR HIRSCH

124. **Babylonian Talmud.**—Reading of easier (Haggadic) selections, with a view of studying the dialects grammatically and lexicographically.
M. Second Term, Spring Quarter, 1906; 11:00
PROFESSOR HIRSCH

126. **Babylonian Talmud:** (Advanced.)—Reading of Tract *Berakhoth*, or *Abhodah Zarah* (Babylonian) with Commentaries. Study of language and method. Mj. Autumn Quarter, 1907
PROFESSOR HIRSCH

128. **Jerusalem Talmud.**—Reading of some Tract or selected portions. Study of the lexicography and dialect will be the feature of this course.
M
PROFESSOR HIRSCH

130. **Halakkic Themes.**—Study from the sources, tracing the ritual practice to its final decision in the Codes. This is a research course for advanced students exclusively. A Seminar.
3Mj. Autumn Quarter, 1906
PROFESSOR HIRSCH

132. **The Civil and Criminal Legislation of the Talmud.** Open to students without knowledge of Hebrew; and of interest for members of the classes in sociology and political science or comparative jurisprudence.
M. Second Term, Autumn Quarter, 1906
PROFESSOR HIRSCH

134. **Rabbinical Commentaries on Genesis or other Books of the Old Testament.**—The study of the terminology of the Hebrew grammarians and their writings will be combined with this course.
Mj. Winter Quarter, 1908
PROFESSOR HIRSCH

136. **History of the Jewish Sects:** Pharisees, Sadducees, Essenes, Rabbinites, and Karaites.
M. First Term, Autumn Quarter, 1906
PROFESSOR HIRSCH

138. **Talmudic Analogies to the New Testament.**—A presentation of the correspondences of Rabbinical doctrine with the teachings of the New Testament, and of the life of the Jews during the New Testament century.
M. First Term, Spring Quarter, 1906
PROFESSOR HIRSCH

139. **Rabbinical Philosophy.**—A Seminar.
Mj. Autumn Quarter, 1906
PROFESSOR HIRSCH

Professor Hirsch will, upon occasion, give opportunities for the reading of Modern Hebrew.

III. ARAMAIC LANGUAGES AND LITERATURES

140. **Biblical Aramaic.**—The elements of Aramaic, including a study of the Aramaic portions of the Books of Ezra and of Daniel.
Mj. Autumn Quarter, 1907
PROFESSOR R. F. HARPER

142. **Targum.**—Selections from the Targum, with Grammar, Lexicography, and Methods of the Targumim. M
PROFESSOR R. F. HARPER

144. **Beginning Syriac.**—Including the material of Nestle's *Grammar*, and selections from the New Testament. Mj. Winter Quarter, 1907
PROFESSOR R. F. HARPER

146. **Advanced Syriac.**—Roediger, *Chrestomathia Syriaca;* Land, *Anecdota Syriaca.*
Mj. Spring Quarter, 1908
PROFESSOR R. F. HARPER

IV. ASSYRIAN LANGUAGE AND LITERATURE

150. **Assyrian Language.**—A study of the Esarhaddon texts, and of (*a*) the grammatical principles o

the language, (*b*) the more common cuneiform signs, (*c*) the use of the Assyriological material for lexicographical purposes.
Mj. Spring Quarter, 1906, 1907; 11:00
PROFESSOR R. F. HARPER

152. **Early Assyrian Historical Inscriptions.**—Including (*a*) the critical interpretation of Tiglathpileser 1; (*b*) a more rapid reading of the remaining inscriptions from before 745 B.C.
Mj. Autumn Quarter, 1906; 12:00
Mj. Winter Quarter, 1907
PROFESSOR R. F. HARPER

154. **Later Assyrian Historical Inscriptions.**—Including (*a*) a critical interpretation of the Ašurbanipal Inscription, with (*b*) a more rapid reading of the remaining historical inscriptions from 745 B. C. to 626 B. C.
Mj. Winter Quarter, 1908
PROFESSOR R. F. HARPER

156. **Selected Assyrian Historical Inscriptions.**—With special reference to Assyrian Lexicography.
Mj. Autumn Quarter, 1907
PROFESSOR R. F. HARPER

158. **Babylonian Historical Inscriptions.**—Including (*a*) Nebuchadrezzar, East India House (I. Rawlinson, pl. 53–58=59–64); and (*b*) Neo-Babylonian Inscriptions (of Nebuchadrezzar and Nabonidus). Mj. Spring Quarter, 1907; 12:00
PROFESSOR R. F. HARPER

160. **Babylonian and Assyrian Contracts.** — Using Meissner, *Beiträge zum altbabylonischen Privatrecht;* Johns, *Assyrian Deeds and Documents ;* Stevenson, *Assyrian and Babylonian Contracts ;* Strassmaier, *Inschriften von Nabonidus.* Mj. Autumn Quarter, 1906
PROFESSOR R. F. HARPER

162. **Epistolary Literature.**—(*a*) Letters of the Hammurabi Period, using King, *The Letters and Inscriptions of Hammurabi ;* (*b*) The Tel el-Amarna Letters, using *The Tel el-Amarna Tablets in the British Museum;* Bezold, *Oriental Diplomacy;* and Winckler, *Tel el-Amarna Letters ;* (*c*) The Letters of the Sargon Period, using R. F. Harper, *Assyrian and Babylonian Letters.* 2Mj. Winter, Spring Quarters, 1906; 8:30. PROFESSOR R. F. HARPER

164. **Assyrian Syllabaries and Mythological Inscriptions.**—Using King and Thompson, *Cuneiform Texts from the Babylonian Tablets, etc., in the British Museum.* Autumn Quarter, 1907
PROFESSOR R. F. HARPER

166. **Babylonian Psalms, Prayers, and Addresses.**—Using Zimmern, *Babylonische Busspsalmen;* King, *Babylonian Magic and Sorcery ;* and Knudtzon, *Assyrische Gebete an den Sonnengott.* Autumn Quarter, 1906
PROFESSOR R. F. HARPER

168. **Religious Texts.**—The Šurpu and Maḳlû Series of Incantations. Using Zimmern, *Beiträge zur Kenntnis der babylonischen Religion,* and Tallqvist, *Die assyrische Beschwörungsserie Maqlû.* Spring Quarter, 1906; 9:30
Mj. Autumn Quarter, 1906
PROFESSOR R. F. HARPER

170. **Astrological Literature.**— Using Thompson, *Reports of the Magicians and Astrologers of Nineveh and Babylon.*
Autumn Quarter, 1906
PROFESSOR R. F. HARPER

172. **The Code of Hammurabi.**—A Seminar.
Mj. Autumn Quarter, 1906
PROFESSOR R. F. HARPER

174. **Earliest Unilingual** (so-called Sumerian) **Cuneiform Inscriptions.**—Using (*a*) Hilprecht's *Old Babylonian Inscriptions,* (*b*) de Sarzec's *Découvertes en Chaldée.* A Seminar.
Mj. Winter Quarter, 1907
PROFESSOR PRICE

175. **The Susian Inscriptions.**—A reading and comparative study of the material discovered at Susa, and published in Scheil's *Mémoire.* A Seminar. Mj. Winter Quarter, 1908
PROFESSOR PRICE

176. **Origin of the Semitic Civilization of Babylonia.** A study of the earliest elements of civilization in the Babylonian valley, and a comparison of these with those of the later Assyro-Babylonian times. A Seminar.
Mj. Winter Quarter, 1909
PROFESSOR PRICE

178. **The Old Testament and the Assyro-Babylonian Inscriptions.**—A review of the material in the inscriptions bearing on the Old Testament.
Prerequisites: *A knowledge of Hebrew and Assyrian.* PROFESSOR R. F. HARPER

V. ARABIC LANGUAGE AND LITERATURE

180. **Beginning Arabic.**—A study of easy narrative and of (*a*) the grammatical principles of the language, (*b*) the commonest vocabulary, and (*c*)

the relation of the Arabic grammatically considered to the Hebrew.
Mj. Spring Quarter, 1906
Mj. Summer Quarter, 1906; 9:30
PROFESSOR JEWETT

182. **Selected Suras of the Qurân.**—Critical translation and interpretation, with Arabic commentary. Mj
PROFESSOR JEWETT

184. **Historical Prose Relative to the Early Period of Islam.**—Critical translation, with interpretation and study of the historical background.
Mj. Summer Quarter, 1906; 11:00
PROFESSOR JEWETT

185. **Arabic Prose.**—Critical translation and grammatical work for advanced students. Mj
PROFESSOR JEWETT

186. **Arabic Grammarians.** — Reading and study of selected portions from these writers.
Mj. Spring Quarter, 1906; 11:00
PROFESSOR JEWETT

188. **Ibn Hisham's Life of Mohammed.**—Reading and interpretation of selected portions.
Mj. Spring Quarter, 1907; 4:00
PROFESSOR JEWETT

190. **Arabic Treatises on Mohammedan Eschatology.**
PROFESSOR JEWETT

192. **Arabic Rhymed Prose.** Mj
PROFESSOR JEWETT

193. Mohammedan History to the Beginning of the Crusades.
Mj. Spring Quarter, 1906; 8:30
PROFESSOR JEWETT

194. **History of the Crusades.**—Reading of selections from Arabic sources.
Mj. Summer Quarter, 1906; 8:30
PROFESSOR JEWETT

196. **Philosophical Literature of the Arabians.**—Reading, in the original, of some philosophical treatise, and a study of the philosophical terminology of the Arabians.
Mj. Winter Quarter, 1908
PROFESSOR HIRSCH

198. **Arabic Literature of the Jews.**—Reading of selections from Hirschfeld's *Chrestomathy.*
Mj. Autumn Quarter, 1906
PROFESSOR HIRSCH

200. **Life of Mohammed,** with a critical examination of his main teachings. Mj
PROFESSOR JEWETT

204. **The Spread of Islam,** being a study of the progress of Mohammedanism, with special reference to the Islam of today.
PROFESSOR JEWETT

VI. EGYPTIAN LANGUAGE AND LITERATURE

210. **Beginners' Hieroglyphic.**— Including the acquisition of the commonest signs and the grammatical principles of the language of the classic period. Mj. Summer Quarter, 1906
PROFESSOR BREASTED

212. **Translation of Egyptian Texts** from the classic period. Mj. Summer Quarter, 1907
PROFESSOR BREASTED

214. **Late Egyptian.**—The language of the new empire (Eighteenth to Twentieth Dynasties). (Possible only after pursuing the two preceding courses.) Mj
PROFESSOR BREASTED

216. **Egyptian Literature.**—Rapid reading of the best literary products of Egypt in annals, narrative, and poetry; largely in the original, but with the use of all other materials in translation.
Mj. Spring Quarter, 1907
PROFESSOR BREASTED

218. **Pyramid Texts.**—A study of the earliest religious texts in the world; with constant comparison with later religious compositions, especially the Book of the Dead.
Mj. Summer Quarter, 1907
PROFESSOR BREASTED

220. **Egyptian Texts of the Græco-Roman Period.**—Including a study of the bilingual inscription of Rosetta; the Decree of Canopus and the Stele of Alexander II.
M. Second Term, Winter Quarter, 1907
PROFESSOR BREASTED

222. **Coptic Language.** — Elementary study of the Sahidic dialect, using Steindorff's *Chrestomathie.* Mj. Autumn Quarter, 1907
PROFESSOR BREASTED

224. **Coptic Language. Sahidic Dialect.**— Translation from the version of the Prophets, and the New Testament, and the tracing of all possible etymologies. Mj. Spring Quarter, 1907
PROFESSOR BREASTED

226. **History of Egypt.**— Giving special attention to the religion, literature, art, and science, and their influence upon subsequent civilization; the condition of Egypt at the probable period of the Israelitish sojourn.
Mj. Summer Quarter, 1906
PROFESSOR BREASTED

228. **Europe and Asia in the Egyptian Monuments.**— A study of the civilization of the Mediterranean basin in the earliest times; the beginnings of European and Asiatic history, according to the monuments in the Nile valley.
M. First Term, Winter Quarter, 1907
PROFESSOR BREASTED

230. **Egyptian Archæology.**— A study of the Nile valley civilization, and its contributions to later Europe as exhibited in its surviving material remains. Mj
PROFESSOR BREASTED

232. **Egyptian Life and Antiquities.** Mj
PROFESSOR BREASTED

234. **History of Oriental Art from the Earliest Times to the Conquests of Alexander.**
PROFESSOR BREASTED

VII. OTHER SEMITIC LANGUAGES AND COMPARATIVE WORK

240. **Samaritan.**—Using Petermann, *Grammatica Samaritana.* ASSISTANT PROFESSOR WILLETT

242. **Phœnician.**—Using Schröder, *Die phönizische Sprache.* Inscriptions and Grammar.
ASSISTANT PROFESSOR WILLETT

244. **Mandaic.**— Noeldeke, *Mandäische Grammatik.* Reading from the Sidrâ Rabbâ.
PROFESSOR HIRSCH

246. **Sabæan and Himyaritic Inscriptions.**
PROFESSOR JEWETT

248. **Beginning Ethiopic.**— Using Dillmann, *Chrestomathia Ethiopica* and Prætorius, *Grammatica Æthiopica.* Mj. Spring Quarter, 1906
ASSISTANT PROFESSOR GOODSPEED

250. **Advanced Ethiopic.**— Using J. Bachmann, *Inedita Æthiopica*, and Charles, *Book of Jubilees.*
M. Spring Quarter, 1908
PROFESSOR HIRSCH

252. **North Semitic Inscriptions**, including a study of the Moabite stone, the Siloam inscription, the Sinjirli inscriptions, and others, from the point of view of their contribution to a knowledge of Hebrew, and to a better understanding of Old Testament history and literature.
Mj. Autumn Quarter, 1908
DR. SMITH

254. **Semitic Seminar I.**—Comparative Semitic Phonology.
PROFESSOR W. R. HARPER

256. **Semitic Seminar II.**—Comparative Semitic Etymology.
PROFESSOR W. R. HARPER

258. **Semitic Seminar III.**—Comparative Semitic Syntax. Mj. Spring Quarter, 1906
PROFESSOR R. F. HARPER
Time to be arranged.

260. **Comparative Semitic Lexicography.**—A Seminar. Prerequisites: *Hebrew, Aramaic, Assyrian and Arabic.* PROFESSOR R. F. HARPER

IX. THE DEPARTMENT OF BIBLICAL AND PATRISTIC GREEK

OFFICERS OF INSTRUCTION

ERNEST DEWITT BURTON, D.D., *Professor and Head of the Department of New Testament Literature and Interpretation.*
SHAILER MATHEWS, A.M., D.D., *Professor of New Testament History.*
CLYDE WEBER VOTAW, D.B., PH.D., *Assistant Professor of New Testament Literature.*
EDGAR JOHNSON GOODSPEED, D.B., PH.D., *Assistant Professor of Biblical and Patristic Greek, Assistant Director of Haskell Oriental Museum.*

FELLOWS, 1905-6

LESLIE MOULTHROP BURWELL, A.B., D.B. COLIN DONALD CAMPBELL, A.M., D.B.
ROY BATCHELDER NELSON, A.B.

INTRODUCTORY

LINES OF STUDY

The Department known in the Divinity School as the Department of New Testament Literature and Interpretation (XLII) is designated in the Graduate School and the Senior Colleges as that of Biblical and Patristic Greek (IX). The two titles emphasize different aspects of the work of the one Department. The aim of this Department is to provide instruction in the following lines of investigation:

1. The Greek of the New Testament, and of other Greek literature closely related linguistically to the New Testament, for students who already have a knowledge of classical Greek. In this division of the work opportunity is provided for the translation and grammatical study of the New Testament, of the Septuagint and other Greek versions of the Old Testament, of Jewish Greek Literature nearly contemporaneous with the New Testament writings, and of early Christian Greek literature. The special aim in this portion of the work is primarily, to give to all students the necessary linguistic foundation for the interpretation of the New Testament and, secondarily, to afford to those who desire it an opportunity to form a broad basis for advanced original work in the various departments of New Testament study.

2. The documents of the New Testament text, and the theory and praxis of textual criticism as applied to them.

3. Historical Introduction to the study of the New Testament, including:

a) The History of New Testament Times in Palestine.

b) The History of New Testament Times in the Græco-Roman World. Both these lines of study are pursued with special reference to the acquisition of the method of historical investigation, and of the necessary historical basis for the interpretation of the New Testament.

c) The History of the Apostolic Age of the Church, especially the Life of the Apostle Paul, as a preparation for the study of the books which arose in this period.

d) Special Introductions to the several New Testament Books, in which the authorship, date, purpose, and plan of these books are discussed. These are taken up in connection with the preceding line of study, *c*), and with the following, 4*b*), but also in a summary way in a special course.

4. The Interpretation of the New Testament, including:

a) Principles of interpretation, especially as applied to the New Testament. Instruction in these principles is given only in connection with the actual work of interpretation on the part of the student, and is practical rather than theoretical.

b) Interpretation of the various New Testament books in accordance with the principles referred to above. The object kept in view is to furnish a basis for the study of the life of Jesus, and for the work of the Department of Biblical Theology.

5. The Life of Jesus Christ. It will be the endeavor of the instructors to make all the previously mentioned lines of study, especially as applied to the gospels, contribute to the attainment and presentation of a true conception of the life and teaching of Jesus.

6. The History of the New Testament, including (*a*) the history of manuscripts and versions; (*b*) the history of the canon; (*c*) the history of interpretation; (*d*) the history of criticism.

GENERAL AIM

The work of the Department is planned with reference to the needs of three classes of students:

1. Those who are preparing for the Christian ministry and expecting to be pastors.

2. Those who are preparing to be teachers of the Bible or of the biblical languages, or instructors in other departments of theological study.

3. Those who seek a knowledge of the Bible as a part of a liberal education, or as preparation for general Christian service.

It is recognized that the great majority of those whom the Department serves will be of the first of these classes, and special reference is therefore had to their needs. Yet it is believed that there ought to be, and it is hoped that there will be, an increasing number of students of both the other classes, and the effort has been made to provide courses of instruction adapted to them.

With a view to meeting the varied needs of these several classes, the relative emphasis on the impartation of the results of the instructor's investigation, the acquisition of information derived from other sources and

training of the student to investigate for himself, varies in different courses. But the courses as a whole are planned with a view to developing the student's own powers of investigation, and in most of them this is the result *directly* aimed at.

ARRANGEMENT OF WORK

I. THE PRELIMINARY COURSES

In order to accomplish thorough and independent work in the study of the New Testament, it is necessary that the student should acquire at the outset a knowledge of the history of New Testament times, of the Greek language as used by New Testament writers, of the general character and content of the New Testament books, and of the fundamental principles of interpretation. With a view to the acquisition of this fundamentally necessary knowledge, all students who are candidates for a degree in the Graduate Divinity School are required to take Courses 1, 2, and 3 in the first four Quarters of their course, and are strongly advised to elect Course 25, 28, or 33 in the second year. Students in the Graduate School who make the New Testament or Biblical Greek one of the subjects presented for a degree must also take these four courses.

II. SECONDARY WORK IN THE NEW TESTAMENT FOR THE DOCTOR'S DEGREE

Students who make New Testament Interpretation and Theology their secondary subject for the Doctor's degree must complete work equivalent to not less than nine Majors, including the four Majors named above. The additional courses must be selected with reference to their relation to the student's principal subject, and must be approved by the Head of the New Testament Department. Such students must be familiar with the grammar and vocabulary of the Greek New Testament, and must be able to read any portion of it. Students who take the Old Testament as their principal subject and the New Testament for their secondary subject are recommended to include Courses 40, 44, and 61 in their selection.

III. SECONDARY WORK IN BIBLICAL GREEK

Students who make Biblical Greek their secondary subject for the Doctor's degree are required to complete work in that subject equivalent in the aggregate to not less than nine Majors, including the four Majors named above. The courses must be systematically arranged and must be approved by the Head of the Department. The student must be able to read the Septuagint version of the historical books of the Old Testament, any portion of the New Testament, and the Apostolic Fathers.

IV. PRINCIPAL WORK IN THE NEW TESTAMENT

Students who make New Testament Interpretation and Theology their principal subject for the Doctor's degree must acquire a reasonably thorough knowledge of the entire field covered by the Department, including all of the six lines of study indicated above, and must become specially proficient in some one of these lines. They will also be required to have a good knowledge of Hebrew, and of Aramaic, and to have done systematic work in Old Testament History and Interpretation, especially in the History of Prophecy. The preliminary courses in Hebrew (three Majors), together with a course in Aramaic and three courses in the History and Interpretation of the Old Testament, will furnish the minimum preparation necessary. These courses are required by the New Testament Department, whether the Old Testament be taken as the secondary subject or not. The total amount of work required for the degree cannot be stated in Majors and Minors. The degree is granted only to those who give evidence of high attainments in the Department and of ability to be independent investigators.

V. PRINCIPAL WORK IN BIBLICAL GREEK

Students who make Biblical and Patristic Greek their principal subject for the Doctor's degree must be proficient in Jewish and Roman History from 175 B. C. to 135 A. D., and must have a good acquaintance with the Jewish and Christian literature of this period, and a thorough knowledge of the Greek of the Septuagint, the New Testament, and the Apostolic Fathers. They must be proficient in classical Greek, and have at least an elementary knowledge of Comparative Indo-European Grammar. They must also have such knowledge of Hebrew as can be acquired by the three preliminary Majors in the Old Testament Department together with the course in Hebrew Syntax. A knowledge of Aramaic is also required.

VI. WORK LEADING TO THE MASTER'S DEGREE

The requirements for a Master's degree, when the New Testament or Biblical Greek is the principal subject, are the same as for the Doctor's degree, when the New Testament or Biblical Greek is the secondary subject.

When the secondary work for a Master's degree is done in this Department, a total of not less than six Majors, including the four Majors named in I above, and approved by the Head of the Department, will be required. Every student recommended by this Department for a degree must also be proficient in classical Greek and well acquainted with the Greek of the New Testament.

VII. THE NEW TESTAMENT CLUB

The New Testament Club holds fortnightly meetings for the review of current literature and the presentation of papers on subjects connected with New Testament study.

LIBRARY FACILITIES

Including works in their own departmental library, in other departmental libraries accessible to students and instructors, and in the General Library of the University, the New Testament Department possesses a very large and valuable library outfit. Many of the most valuable older works are contained in the Hengstenberg and Bible Union collections, which were acquired entire by the Baptist Union Theological Seminary and brought by that school to the University when the two institutions were united, and a very good collection of more recent works has been purchased within the last nine years. This collection is being constantly increased by careful purchase. The leading German, English, and American journals devoted to biblical criticism and interpretation are also accessible to the student.

COURSES OF INSTRUCTION

1. **Introduction to the Study of New Testament Greek.** — Characteristics of the Greek of the New Testament, with special attention to Syntax; brief survey of facts and principles of textual criticism, translation of the gospel of Mark; exercises in interpretation; elementary principles of interpretation.
A required couse.
Mj. Summer Quarter, 1906
ASSISTANT PROFESSOR VOTAW, AND
ASSISTANT PROFESSOR GOODSPEED
Mj. Autumn Quarter, 1906
ASSISTANT PROFESSOR GOODSPEED

2. **Introduction to New Testament History.** — Geography of Palestine; history of the Jewish people from 175 B. C. to 70 A. D. with special reference to the rise of the Pharisees and the Messianic hope; sketch of the rise of Christianity. Essays by the class. *A required course.*
Mj. Winter Quarter, 1907
PROFESSOR MATHEWS

3. **Introduction to the Books of the New Testament.** — General survey of the field of New Testament study; examination of the books of the New Testament with reference to their occasion, purpose, and content, covering (a) the epistles of Paul in relation to his life and thought, (b) the gospels and Acts, (c) the general epistles and Revelation; assigned reading in the history of the canon.
A required course.
Mj. Summer Quarter, 1906
Spring Quarter, 1906, 1907
PROFESSOR BURTON

4. **Rapid Translation and Interpretation of portions of the Greek text of the New Testament.**
Mj. Spring Quarter, 1906
ASSISTANT PROFESSOR GOODSPEED
Mj. Spring Quarter, 1907
ASSISTANT PROFESSOR VOTAW

5. **New Testament Syntax.** — Inductive study of the syntax of the noun, pronoun, and article.
PROFESSOR BURTON

8. **Textual Criticism of the New Testament.**—Material and principles of criticism, with practical exercises from *fac similes* and digests of readings.
Mj. Winter Quarter, 1907
ASSISTANT PROFESSOR GOODSPEED

11. **History of New Testament Times in the Græco-Roman World.** Mj. Spring Quarter, 1906
ASSISTANT PROFESSOR GOODSPEED

13. **History of the Apostolic Age of the Christian Church.** Mj. Winter Quarter, 1906
ASSISTANT PROFESSOR VOTAW

16. **Introduction to the Synoptic Gospels.**—Detailed examination of the resemblances and differences of the first three gospels as bearing upon the question of the sources and authorship of each.
Mj. Winter Quarter, 1907
ASSISTANT PROFESSOR GOODSPEED

17. **Introduction to the Gospel of John.**—Internal and external evidence bearing upon the origin of the Fourth Gospel. A Seminar.
Mj. Autumn Quarter, 1906
PROFESSOR BURTON

19. The Life of Christ.—Historical study on the basis of the gospel records.

Mj. Spring Quarter, 1906
PROFESSOR MATHEWS

Open to members of the Senior Colleges.

Mj. Autumn Quarter, 1906
ASSISTANT PROFESSOR VOTAW

For the Colleges only.

20A. The Parables of Jesus.—Their characteristics; principles of interpretation; interpretation of a limited number.

M. First Term, Summer Quarter, 1906
PROFESSOR MATHEWS

20B. The Miracles of Jesus.—Their characteristics, purpose, and historicity.

24. Life of the Apostle Paul, and Introduction to the Pauline Epistles.

PROFESSORS BURTON AND MATHEWS

25. The Gospel of Matthew.—Study of the book with reference to authorship, structure, and specific purpose; translation of Greek text; inductive study of leading words; interpretation of chaps. 3–7; lectures on interpretation.

Mj. Autumn Quarter, 1908
PROFESSOR BURTON

Prerequisite: *The required courses.*

NOTE.—Course 25 is given each third year, rotating with 28 and 33. All candidates for a degree are advised to elect one of these three courses.

25B. Jesus' Sermon on the Mount. A study of the historical features of the discourse as recorded in Matt., chaps. 5–7, and Luke 6:20–49; the theme of the sermon and its development; the interpretation of the teaching of Jesus herein contained, with special reference to present-day religious and ethical thought.

M. Second Term, Summer Quarter, 1906
ASSISTANT PROFESSOR VOTAW

27. The Gospel of Luke.—Study of the Greek text, with special attention to its use by preachers as a basis for Christian teaching.

Mj. Winter Quarter, 1906
PROFESSOR MATHEWS

28. The Gospel of John.—Study of the book with reference to authorship, structure, and purpose; translation of the Greek text; study of the leading terms of the gospel, intended to lay the foundation of an inductive study of Johannine theology; interpretation of chaps. 1–3; lectures on interpretation. (See note under 25.)

Mj. Autumn Quarter, 1906
PROFESSOR BURTON

Prerequisite: *The required courses.*

29. The Book of Acts.—Introduction; study of the Greek text from a linguistic and historical point of view. Mj

ASSISTANT PROFESSOR VOTAW

30. The Epistles to the Thessalonians.—Introduction; analysis of the letters; translation of Greek text; interpretation of selected passages.

M. First Term, Summer Quarter, 1906
ASSISTANT PROFESSOR GOODSPEED

31. The Epistle to the Galatians.—Introduction; analysis of the letter; translation of the Greek text; interpretation of selected passages.

PROFESSOR BURTON

32. The Epistles to the Corinthians.—Historical situation; analysis of the letters; translation and interpretation of the Greek text; contribution of the epistles to our knowledge of primitive Christianity, and their practical value for the Christianity of today. Mj. Autumn Quarter, 1906
ASSISTANT PROFESSOR VOTAW

33. The Epistle to the Romans.—Introduction; analysis of argument; translation of Greek text; study of the leading terms of the epistle, intended to lay the foundation of an inductive study of the Pauline theology; interpretation of chaps. 1–8; lectures on interpretation. (See note under 25.)

Mj. Autumn Quarter, 1907
PROFESSOR BURTON

Prerequisite: *The required courses.*

34. The Epistle to the Colossians.—See 31.

M. Spring Quarter, 1907
PROFESSOR MATHEWS

35. The Epistle to the Ephesians.—See 31.

M. Spring Quarter, 1907
PROFESSOR MATHEWS

36. The Epistle to the Philippians.—See 31.

PROFESSOR BURTON

37. Exegetical Study of Selected Texts in the General Epistles.—Practice in applying the principles of interpretation to New Testament texts as a groundwork for homiletics, involving interpretation of the Greek text from the historical point of view and formulation of themes for preaching.

Mj. Winter Quarter, 1907
ASSISTANT PROFESSOR VOTAW

38. **The Epistle to the Hebrews.**—Introduction; history of opinion concerning the authorship of the letter; analysis of argument; reading of Greek text; the interpretation of selected passages.
Mj
ASSISTANT PROFESSOR GOODSPEED
Prerequisite: *The required courses.*

38B. **The Epistles of John.**—Introduction; translation and interpretation of the Greek text. M
ASSISTANT PROFESSOR GOODSPEED

39. **The Book of Revelation.**—Introduction to the Christian use of apocalyptic; history of the modern criticism of the Book of Revelation; interpretation of the Greek text.
Mj. Winter Quarter, 1906
ASSISTANT PROFESSOR VOTAW

40. **New Testament Quotations from the Old Testament.**—Part I. Interpretation of quotations in the synoptic gospels on the basis of the Hebrew Old Testament, the Septuagint translation, and the Greek New Testament. M
PROFESSOR BURTON
Prerequisite: *Course 1, and a knowledge of Hebrew.*

41. **New Testament Quotations from the Old Testament.**—Part II. Quotations in Acts and the epistles. (See under Course 40.) M
PROFESSOR BURTON
Prerequisite: *Course 1, and a knowledge of Hebrew.*

44. **Rapid Reading in the Septuagint.**—Translation of portions of the Greek Old Testament; study of the characteristics of Septuagint Greek, and its relation to the Greek of the New Testament the origin and history of the Septuagint, and other Greek versions of the Old Testament.
Mj. Spring Quarter, 1907
ASSISTANT PROFESSOR VOTAW

46. **Jewish Literature of New Testament Times.** A study of the Jewish writings, historical, psalmodic, philosophical, and apocalyptic, of the years 175 B. C. to 135 A. D.
Mj
ASSISTANT PROFESSOR VOTAW

48. **The Writings of Philo.**—Biographical introduction; reading of selected portions of his works; discussion of his mode of interpretation, and of his philosophical ideas.
M. First Term, Autumn Quarter, 1905
ASSISTANT PROFESSOR VOTAW

49. **The Writings of Josephus.**—Biographical introduction. Translation of the work against Apion, and portions of War of the Jews and the Antiquities.
M. Second Term, Autumn Quarter, 1905
ASSISTANT PROFESSOR VOTAW

53. **The Apostolic Fathers.**—Brief introductions; translation of the Greek text; lectures and essays on the theology of the several writers.
Mj
ASSISTANT PROFESSOR GOODSPEED

54. **Reading in Christian Literature Bearing on the History of New Testament Books.**
M
ASSISTANT PROFESSOR GOODSPEED

55. **Christian Literature to Eusebius.**—History of Ante-Nicene Christian Literature, with reading of assigned portions, partly in original, partly in translation.
Mj. Autumn Quarter, 1906
ASSISTANT PROFESSOR GOODSPEED

57. **The Formation of the New Testament Canon** and its history in the Ante-Nicene Period.
Mj. Winter Quarter, 1906
ASSISTANT PROFESSOR GOODSPEED

59. **The History of the Interpretation and Criticism of the New Testament.** Mj
ASSISTANT PROFESSOR VOTAW

60. **Theology of the New Testament.**—The principal teachings of Jesus, and of the leading New Testament writers. An outline course from the historical point of view.
Mj. Summer Quarter, 1906
PROFESSOR BURTON

61. **Theology of the Synoptic Gospels.**—An inductive study of the teachings (*a*) of John the Baptist, (*b*) of Jesus, (*c*) of the several evangelists. A Seminar.
Mj. Spring Quarter, 1906
PROFESSOR BURTON
Prerequisite: *The required courses, and 25 (or 27).*

NOTE.—Course 61 is given each third year in rotation with Courses 62 and 66, each course following an exegetical course preparatory to it in the Autumn Quarter.

62. **Theology of the Gospel and First Epistle of John.** An inductive study of the teachings (*a*) of John the Baptist, (*b*) of Jesus, as these appear in the

fourth gospel, and (c) of the evangelist. A Seminar.

Mj. Spring Quarter, 1907
PROFESSOR BURTON

Prerequisite: *The required courses, and 28.*

63. **The Teaching of Jesus.**—Characteristics of the records of the teaching, arrangement of the material under specific topics with reference to their organic relation, and an interpretative study of the teaching.

Mj. Winter Quarter, 1907
ASSISTANT PROFESSOR VOTAW

Open to members of the Graduate Schools and of the Senior Colleges.

63A. **The Ethical Teachings of Jesus,** in relation to the ethics of the Old Testament and of the Pharisees. PROFESSOR BURTON

63B. **The Religious Teachings of Jesus** on the basis of the gospel records. M
PROFESSOR MATHEWS

66. **Theology of the Second Group of the Epistles of Paul.**—An inductive study of the teachings of the apostle in his letters to the Galatians, Corinthians, and Romans. A Seminar.

Mj. Spring Quarter, 1908
PROFESSOR BURTON

Prerequisite: *The required courses, and 31, 32, 33, or 36.*

68. **The Ethical Teachings of the New Testament.**
Mj
PROFESSOR MATHEWS

69. **The Doctrine of Atonement in the New Testament.**—The doctrine of the basis of forgiveness and justification in the several writers and groups of books in the New Testament.
PROFESSOR BURTON

70. **Lexicographical Seminar,** for the historical study of important New Testament words.
PROFESSOR BURTON

Prerequisite: *One or more exegetical courses in the New Testament.*

75. **Research Work.**—Investigation in the field of lexicography, history, exegesis, and biblical theology. Every Quarter. PROFESSOR BURTON

X. THE DEPARTMENT OF SANSKRIT AND INDO-EUROPEAN COMPARATIVE PHILOLOGY

OFFICERS OF INSTRUCTION

CARL DARLING BUCK, PH.D., *Professor and Head of the Department of Sanskrit and Indo-European Comparative Philology.*

JOHN JACOB MEYER, PH.D., *Associate in Sanskrit and Indo-European Comparative Philology.*

SAMUEL NORTHRUP HARPER, A.B., *Associate in the Russian Language and Literature.*

XA. GENERAL COMPARATIVE PHILOLOGY

GHEN-ICHIRO YOSHIOKA, PH.B., *Docent in Japanese.*

FELLOW, 1905-6

GHEN-ICHIRO YOSHIOKA, PH.B.

INTRODUCTORY

The aim of the Department will be:

1. To furnish the requisite training for those intending to make Indo-European Philology their chief work. Instruction will be given in the most important branches of the family by means of courses which combine a practical introduction to the respective languages with lectures and exercises on their comparative grammar. Such courses are offered by this Department in Sanskrit, Avestan, Old Persian, Lithuanian, and Old Bulgarian,

and by the English and German Departments in Old English, Gothic, and Old High German. In Greek and Latin, of which a practical knowledge is presupposed, the work will be entirely grammatical, consisting of lectures and exercises on the comparative grammar of Greek and Latin, and the Greek and Italic dialects. For work in the comparative syntax of Greek and Latin the programme of the Latin Department is to be consulted.

2. To provide for a systematic course of study in Indic Philology. The courses offered are designed to provide for the needs alike of students who turn to Sanskrit for the better understanding of Indo-European language and civilization and of those who are interested especially in the contributions of India to religious and philosophical thought. Provision is made for a consecutive course of study extending over three years.

3. To act as an auxiliary to the Greek and Latin Departments by furnishing instruction in the comparative grammar of the classical languages and in the Greek and Italic dialects. Courses 1 and 2 will also be adapted to students in the German and English Departments who are engaged chiefly in linguistic work.

4. To provide a brief introductory course, such as will be of value to the general student.

The work of the Summer Quarter is intended to meet the wants of teachers of Greek and Latin who desire an insight into the methods of comparative grammar and an elementary knowledge of Sanskrit.

COURSES OF INSTRUCTION

*1. **General Introduction to the Study of Indo-European Philology.**—Brief history of the science. General principles of linguistic development; nature of changes in form and meaning; uniformity of the phonetic processes; analogy; relation of spelling to speech; language and dialect; rise of a standard language; language mixture. The grouping of the Indo-European languages; the ethnological relations and earliest history of each branch; its most important linguistic remains; the leading works of reference in each field. Indo-European antiquities ("linguistic paleontology"). No textbook is used, but a considerable range of reading is assigned in connection with the lectures.

Mj. Spring Quarter; 11:00
PROFESSOR BUCK

2. **Outlines of the Comparative Grammar of Greek and Latin (Sounds and Inflections.)**—This course, which is intended primarily for classical students, though also adapted to the needs of students of Germanic or Romance Philology, is meant to be eminently practical, emphasizing those relations which can be understood from a study of the Greek and Latin languages themselves, and the facts which are most helpful to an understanding of the historical development in each language.

Mj. Autumn Quarter; 12:00
PROFESSOR BUCK

3. **Exercises in Greek and Latin Historical Grammar Based on the Study of Selected Inscriptions.**—The time is equally divided between Greek and Latin, and either half may be taken separately as a Minor. Mj. Winter Quarter; 12:00
PROFESSOR BUCK

4. **Historical Latin Grammar.**—Lectures and exercises upon the history of Latin sounds and inflections.

M. First Term, Summer Quarter; 11:30
PROFESSOR BUCK

6. **Italic Dialects.**—Buck's *Grammar of Oscan and Umbrian* will be used.

M. First Term, Summer Quarter; 10:30
PROFESSOR BUCK

7. **Greek Dialects.**—Solmsen's *Inscriptiones Graecae ad inlustrandas dialectos selectae* will be used.

Mj. Spring Quarter; 12:00
PROFESSOR BUCK

10. **Sanskrit.**—Elementary Course. Whitney's *Sanskrit Grammar* and Lanman's *Sanskrit Reader* are used. The reading is begun after about six lessons on the more important paradigms. In connection with the reading, the system of sounds and inflections is studied more carefully and in the light of comparative grammar.

Mj. Summer Quarter; 1:30
DR. MEYER
Mj. Autumn Quarter; 11:00
PROFESSOR BUCK

11. **Sanskrit.**—Reading of classical texts from Lanman's *Reader* and exercises in Sanskrit composition. Mj. Winter Quarter; 2:00

12. **Introduction to Vedic Study.**—Lanman's *Reader*

*Courses 1-7, 10-12, 21-24, and 30-32 are Senior College and Graduate courses; all others are Graduate only. Courses 21-24 are also open to students of the Junior Colleges upon consultation with the instructor.

and Hillebrandt's *Vedachrestomathie* will be used. Mj. Summer Quarter; 2:30.
DR. MEYER
Mj. Spring Quarter; 2:00

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13. **Kālidāsa's** *Çakuntalā*, or *Vikramorvaçī*. with an introduction to scenic Prākrit.
Mj. Winter Quarter; 3:00

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14. **Kālidāsa's** *Meghadūta* and *Ṛtusamhāra*.
[Not to be given in 1906–7]

17. **Pāli.**—For beginners. Reading of Ellwell's *Nine Jātakas*, followed by the *Dhammapada*. Prerequisite: *Sanskrit*.
[Not to be given in 1906–7]

19. **Avestan** (and **Old Persian**).—Introduction to Iranian Philology. Jackson's *Avesta Grammar* and *Avesta Reader* will be used. After completing the selections in the Reader, either additional texts from the Avesta (Geldner's edition) or the Old Persian inscriptions will be taken up. Prerequisite: *Sanskrit*.
PROFESSOR BUCK
[Not to be given in 1906–7.]

20. **Lithuanian and Old Bulgarian.**—Introduction to Balto-Slavic Philology. Wiedemann's *Handbuch der litauischen Sprache* and Leskien's *Handbuch der altbulgarischen Sprache* will be used. PROFESSOR BUCK
[Not to be given in 1906–7]

21, 22. **Elementary Russian.**—Reiff's *Russian Grammar*, and the *Russian Reader* of Boyer and Speranski will be used.
2Mj. Autumn and Winter Quarters; 9:30
MR. HARPER

23, 24. **Intermediate Russian.**—Grammar, composition, and reading. The practical knowledge of the language is emphasized in this course. Texts: *A Hero of Our Time* (Lermontov); *Reminiscenses of the Soldier Ivanov* (Garshin).
2Mj. Autumn and Winter Quarters; 11;00
MR. HARPER

25. **Seminar.**—Problems in Indo-European Phonology and Morphology. Written papers will be expected each week.
Mj. Winter Quarter; Fri., 4:00–6:00
PROFESSOR BUCK

26. **Vedic Seminar.**—Interpretation of Selected Hymns from the Rig-Veda.
Mj. Spring Quarter; Wed., 4:00–6:00

X A. GENERAL COMPARATIVE PHILOLOGY

30, 31, 32. **Elementary Japanese.**—The aim of this course is a practical one. Elementary grammar and pronunciation are studied in connection with the reading of easy stories and conversation with regard to their contents. Chamberlain's *Japanese Grammar* and *Japanese Reader* are used as textbooks.
3Mj. Autumn, Winter, and Spring Quarters
MR. YOSHIOKA

Attention is called to the following related courses offered in other Departments:

XII, 84. **The Comparative Syntax of Latin and Greek.**
Mj. Summer Quarter; 9:30
PROFESSOR HALE

XIV, 103. **Gothic.** Mj. Summer Quarter; 1:30
Mj. Autumn Quarter; 2:00
ASSISTANT PROFESSOR WOOD

XIV, 251. **Seminar: Problems in Germanic Philology.**
Mj. Winter Quarter; 3:00
ASSISTANT PROFESSOR WOOD

XV, 31. **Introduction to the Science of Language.**
Mj. Autumn Quarter; 3:00
PROFESSOR MANLY

XV, 21. **Old English.** (Elementary Course.)
Mj. Summer Quarter; 2:30
Autumn Quarter; 12:00
MR. ROYSTER

XI. THE DEPARTMENT OF THE GREEK LANGUAGE AND LITERATURE

OFFICERS OF INSTRUCTION

PAUL SHOREY, Ph.D., LL.D., *Professor and Head of the Department of the Greek Language and Literature.*

EDWARD CAPPS, Ph.D., *Professor of Greek.*

CLARENCE FASSETT CASTLE, Ph.D., *Associate Professor of Greek.*

ROBERT JOHN BONNER, Ph.D., *Instructor in Greek.*

DAVID ANDERSON COVINGTON, A.B., *Assistant in Greek.*

GEORGE NORLIN, Ph.D., *Professor of Greek, University of Colorado* (Second Term, Summer Quarter, 1906).

GENEVA MISENER, Ph.D., *Professor of Greek and Latin, Rockford College* (Summer Quarter, 1906).

FELLOWS, 1905-6.

DAVID ANDERSON COVINGTON, A.B., A.M. KELLEY REES, A.B.

EDITH A. R. DAVIS, A.B.

INTRODUCTORY

Ability to read Greek with accuracy and ease, and intelligent enjoyment of the masterpieces of Greek literature are the indispensable prerequisites of all higher Greek scholarship. All other interests that may attach to the study are subordinate to these, and their pursuit is positively harmful if it prematurely distracts the student's attention from his main purpose.

In the work of the Junior Colleges the Department will keep this principle steadily in view, and will endeavor to teach a practical knowledge of Greek vocabulary and idiom, and to impart literary and historic culture by means of rapid *viva voce* translation and interpretation of the simpler masterpieces of the literature. The authors especially studied will be Homer, Xenophon's *Memorabilia* and *Hellenica*, with two or three of the minor Platonic dialogues, a few of the easier Greek orations, selections from Herodotus and Thucydides, and several Greek plays. In the Senior Colleges the chief stress will still be laid on reading and exegesis, but the range of authors presented to students' choice will be enlarged to include Pindar and Bacchylides, further study of the drama, Theocritus and the Greek lyric poets, the Attic orators, Thucydides, Aristotle, and Plato. Special courses will also be given on archæology, epigraphy, private and public antiquities, and literary history.

The ultimate aim of the graduate work is to train finished scholars, teachers, and investigators. Great pains will be taken, however, to avoid the too common error of hurrying into investigation students who lack the indispensable preliminary knowledge of the Greek language and literature. The Department will make a distinct effort to provide for the needs of students of this type. The opportunities of the Senior Colleges will be open to them, and suitable graduate courses are provided for them; they will also be admitted to the seminar as listeners and, to the extent of their ability, as active participants, on condition that they at the same time pursue special auxiliary courses of reading organized for them in connection with the seminar.

Candidates for the Doctor's degree in Greek (and where Greek is the major subject Latin must be offered as the minor) will be expected to show, in addition to an intimate knowledge of the principles of the two languages and facility in using them, a familiarity with Greek and Roman history, the history of Greek and Latin literature, and a special knowledge of a chosen author or authors in each language. When Greek is taken as the major subject, special stress will be laid on range and accuracy of reading, and on the quality of the dissertation, which must be printed.

For information in regard to Scholarships, Fellowships, and library facilities, see pp. 13, 14 of this *Bulletin.*

SENIOR COLLEGE AND GRADUATE COURSES

16. **Greek Composition.**—The course is intended primarily for those who intend to teach.
Mj. Autumn Quarter; 11:00
DR. BONNER

17. **The History of Greece to the Death of Alexander.**—An outline study of the political and social life of the Grecian people. Lantern slides and other methods of illustration will be employed. Mj. Summer Quarter; 10:30
Winter Quarter; 11:00
DR. BONNER

21. **Homer and the Epic.**—Critical reading of one book of the *Iliad.* Rapid reading of selections from the entire poem. Lectures on the literary study and historical interpretation of Homer.
Mj.
PROFESSOR SHOREY
[Not to be given in 1906–7]

22. **General History of Greek Literature.**—Intended primarily for those who do not read Greek.
Mj. Summer Quarter
PROFESSOR MISENER

23. **Aristophanes.**
M. First Term, Summer Quarter; 2:30
PROFESSOR SHOREY

24. **Aristotle: "Politics."**—An introduction to the political and economic writings of Aristotle, and to the study of the social and political institutions of Greece. The text will be interpreted mainly by the instructor and topics will be assigned for reports. Mj. Winter Quarter; 9:30
PROFESSOR CAPPS

25. **Aristotle: "Constitution of Athens."**—Studies in Athenian Constitutional History and Political Institutions based primarily upon this text, with extensive collateral readings in the other sources. Reports on assigned topics will be expected of members of the class, who will also be encouraged to undertake original studies in this field.
Mj. Autumn Quarter; 9:30
PROFESSOR CAPPS

27. **Pindar and Bacchylides.**
M. Second Term. Summer Quarter; 2:30
PROFESSOR SHOREY

28. **Æschylus.**—Two or three plays will be read by the class. The instructor will interpret the author as a whole. Special attention will be given to the lyric meters.
PROFESSOR SHOREY
[Not to be given in 1906–7]

29. **Plato: The Republic.**
Mj. Summer Quarter; 9:00
PROFESSOR SHOREY

30. **The Lyric Poets.**—Fragments of the early elegiac and melic poets will be read, with lectures on the history of lyric poetry in Greece. Questions of meter and dialect will receive appropriate treatment.
PROFESSOR CAPPS
[Not to be given in 1906–7]

31. **Theocritus, Bion, and Moschus.**—All of the Idyls of Theocritus, the Epitaphius of Bion, and some of the poems attributed to Moschus will be interpreted, together with typical mimes of Herondas.
PROFESSOR CAPPS
[Not to be given in 1906–7]

32. **Hesiod and the Homeric Hymns.**—Reading and interpretation as related to Mycenæan civilization, to the Homeric poems, life, and thought, and to other early literature and pastoral life.
Mj. Spring Quarter; 9:30
ASSOCIATE PROFESSOR CASTLE

34. **Euripides.**—The reading of selected plays as literature. By means of lectures and papers a comprehensive view of all of the poet's extant plays will be presented. Open to Senior College students. Mj. Winter Quarter; 8:30
ASSOCIATE PROFESSOR CASTLE

36. **Demosthenes.**—The translation of selected orations, accompanied by lectures and papers, to show the author's power as an orator, and the scope of his works. Open to Senior College students. ASSOCIATE PROFESSOR CASTLE
[Not to be given in 1906–7]

38. **Homer and the Homeric Age.**—Readings from the *Iliad* and *Odyssey*, with lectures, papers, and reports, designed to present a comprehensive view of the Homeric literature and age, and to show its relation to Mycenæan civilization and to later times. Open to Senior College students. ASSOCIATE PROFESSOR CASTLE
[Not to be given in 1906–7]

39. **Herodotus.**—The author will be studied not only as a literary artist, but also as a source of information concerning the civilization, culture, and ideas of the age to which he belonged, and further as a basis for the study of the methods of historical writers; of the aim and methods in

historical research and instruction, to be illustrated and elucidated by other historians both ancient and modern. Teubner's text will be used. Open to Senior College students.

Mj. Autumn Quarter; 9:30
ASSOCIATE PROFESSOR CASTLE

GRADUATE COURSES

40. **Greek Comedy: Aristophanes.**—The plays of Aristophanes will first be read. A detailed examination will be made of the structure and technique of these plays for the light they throw upon the beginnings of comedy.

Mj. Spring Quarter; 8:30
PROFESSOR CAPPS

45. **The Greek Theater.**—The general field of Greek Scenic Antiquities will be covered by lectures and reports; but attention will be directed particularly to unsolved problems in connection with the history and structure of the theater, the meaning of technical terms, scenic appliances, the dramatic contests, the choregia, the production of plays, actors and acting, and the like. The immediate and practical bearing of the subject upon the interpretation of the drama will be made prominent.

Mj. Winter Quarter; 8:30
PROFESSOR CAPPS

47. **Greek Inscriptions.**—An introduction to the study of the inscriptions mainly as important documents for the illustration of many phases of public and private life. Michel's *Recueil* will be used by the class, but with constant reference to the *Corpus* and the epigraphical journals, with which the student is expected to become familiar. Mj. Autumn Quarter; 8:30
PROFESSOR CAPPS

50. **Greek Tragedy.**—The beginnings of Greek Tragedy and the course of its development will be treated in lectures, with consideration of the legendary material, the external conditions in which tragedy arose, the dramatic and scenic adjustment of its parts, the language of tragedy, and the history of our tragic texts. The course will involve the reading and analysis of several plays by each member, and a general survey of all the remains by the instructor.

PROFESSOR CAPPS
[Not to be given in 1906–7]

51. **Greek Tragedy.**—A continuation of Course 50.
[Not to be given in 1906–7]

54. **Lectures on the Literary Criticism and Rhetoric of the Ancients,** with modern illustrations and applications. Open to Senior College students.

PROFESSOR SHOREY
[Not to be given in 1906–7]

57, 58, 59. **The Attic Orators.**

PROFESSOR SHOREY
[Not to be given in 1906–7]

63, 64, 65. **Seminar: Plato.**

PROFESSOR SHOREY
[Not to be given in 1906–7]

66, 67, 68. **Seminar: Stoicism and Epicureanism in Ancient Literature and Life.**—The doctrine will first be studied in the extant fragments, and then its influence will be traced through Latin and later Greek literature. A second weekly meeting will be arranged for illustrative readings from Lucretius, Cicero, Seneca, Horace, Persius, Juvenal, Plutarch, Lucian, Epictetus, and Marcus Aurelius.

3 Mj. Autumn, Winter, and Spring Quarters
Wed. 4:00–6:00
PROFESSOR SHOREY

Attention is also called to the following courses in the Department of the History of Art.

3. **Greek Life Studied from the Monuments.**

Mj. Autumn Quarter; 9:30
PROFESSOR TARBELL

4A. **Ancient Athens, Olympia, and Delphi.**

M. First Term, Summer Quarter; 8:00
PROFESSOR TARBELL

XII. THE DEPARTMENT OF THE LATIN LANGUAGE AND LITERATURE

OFFICERS OF INSTRUCTION

WILLIAM GARDNER HALE, A.B., LL.D., *Professor and Head of the Department of Latin.*
CHARLES CHANDLER, A.M., *Professor of Latin.*
FRANK FROST ABBOTT, Ph.D., *Professor of Latin.*
GEORGE LINCOLN HENDRICKSON, A.B., L.H.D., *Professor of Latin.*
FRANK JUSTUS MILLER, Ph.D., *Associate Professor of Latin.*
GORDON JENNINGS LAING, Ph.D., *Assistant Professor of Latin.*
EDWARD AMBROSE BECHTEL, Ph.D., *Instructor in Latin.*
CHARLES HENRY BEESON, A.B., *Instructor in Latin.*
SUSAN HELEN BALLOU, Ph.B., *Associate in Latin.*

FELLOWS, 1905-6

LILLIAN GAY BERRY, A.B.
EVAN TAYLOR SAGE, A.B.
FREDERICK WARREN SANFORD, S.B., A.B.
BERTHOLD LOUIS ULLMAN, A.B.

INTRODUCTORY

The aims of the Department of Latin are as follows:

1. To develop the power of rapid and intelligent reading, in the Roman order, and without translating.

In connection with this aim, but also for its independent value as a means of educating the higher literary taste, provision is made for practice in the writing of Latin: first, in connection with the work of the Junior Colleges, and, later, in Senior College courses.

2. To offer a wide range of reading in the important authors.

3. To provide for the systematic study of the life of the people in its various aspects—political, legal, social, religious, etc.—through special courses in Roman History, Roman Politics, Roman Private Life, Roman Religion, Roman Philosophy, and Roman Oratory. In addition, a course in Greek and Roman Art has been provided by the Department of the History of Art, and a course in Roman Law by the Department of Political Science.

4. To offer to students whose tastes lead in the direction of the historical side of the literature opportunities for the study of selected portions of Roman History from the sources.

5. To offer advanced courses — partly by lectures, partly by practical exercises, and partly by work in the seminars — in the study of the earliest existing remains of the language; in the interpretation of inscriptions; in the reading of facsimiles of manuscripts, and the treatment of problems of textual criticism; in the critical study of selected portions of some author; and in the comparative study of Greek and Latin syntax and the investigation of unsettled problems in this field. Provision is also made by the Department of Comparative Philology for courses in the Italic dialects, and in Latin grammar on the side of sounds and inflections.

6. To offer special opportunities for training to students who take up the teaching of Latin as a profession. These opportunities are increased by the resources presented by the School of Education.

Three kinds of courses are arranged: I. Courses in the study of the teaching of particular years, or parts of years, of the high-school course, with participation in this teaching, under the eyes of the instructor. These courses will be given in the building of the School of Education. (See Courses 40, 41.) II. More summarized courses in the individual authors taught in the high school. The work will be supplemented by visits to the corresponding classes in the School of Education (see Course 43). III. More general courses, one in matters necessarily underlying all teaching of Latin, such as pronunciation, syntax, word-order, and the application of the knowledge of these subjects in acquiring power to read (see Course 38), the other a broader course dealing with matters with which all teachers should have some degree of familiarity (see Course 39).

Most students who are beginning graduate work will find it advisable to take further reading courses before electing courses of a more technical character. The work of the seminars can be done with most profit by those who have already spent a year or more in graduate study at the University.

All graduate courses, and the Senior College courses in reasonable proportion, are accepted as work leading to a second degree.

Candidates for the degree of Ph.D. in Latin and Greek (when Latin is the principal subject Greek must be offered as a secondary subject) will be expected to show, in addition to an intimate knowledge of the principles of the two languages and facility in using them, a familiarity with Greek and Roman history and the history of Greek and Latin literature, and a special knowledge of a chosen author or authors in each language. The thesis offered in candidacy for the degree must be in a form suitable for printing before the student is admitted to examination, and must be in the hands of the classical Faculty two months before the date fixed for that examination.

For information with reference to library facilities see the *Annual Register*.

COURSES OF INSTRUCTION

Senior College Courses

Note.—Before entering upon any Senior College course, students must have taken one Junior College elective course. Before entering upon any Graduate course, students must have taken at least four Senior College courses. Courses 13-21, as here outlined, are planned to afford a consecutive scheme of study covering a period of five Quarters. Students expecting to specialize in Latin or candidates for honors in this subject are advised to take this work, preferably in the order in which it is offered. It will, however, be possible for students to enter these Senior College courses in any Quarter on completion of one Junior College elective.

12. **The History of Rome to the Death of Constantine.**—An outline study of the development of the political and social life of the Roman people. Lantern slides and other illustrative material will be used. Mj. Spring Quarter; 11:00
Dr. Bonner

13. **The Writing of Latin: Exercises in Latin Style.**—The method employed will be the combination of writing with the study of a model. Original compositions in English and English translations from Latin authors will be given to the students to translate into Latin in the classroom or at home.
Mj. Winter Quarter; 2:00
Assistant Professor Laing

14. **Cicero's Letters.**—Enough of the correspondence bearing upon political matters will be read to present an outline of Cicero's public life and of his times; but attention will be given in particular to the letters on personal subjects, in the hope of throwing as much light as possible upon Cicero's private character, his tastes, his daily life, and his relations with his personal and literary friends. Mj. Autumn Quarter; 9:30
Professor Abbott

15. **Pliny the Younger: Letters.**—The principal object of this course and of Course 29, aside from the necessary study of the language, will be to present a picture of life and manners at Rome under the Early Empire.
Professor Hale
[Not to be given in 1906–7]

16. **Lucretius.**—A study, chiefly literary, of the *De Rerum Natura*, and of the transmission and original form of the poem.
Mj. Summer Quarter; 8:00
Professor Chandler

17. **Horace: Satires and Epistles.**—Attention will be especially directed upon the construction of these poems and upon Horace's philosophy of life. The members of the course will also be trained in reading hexameter verse.
Mj. Autumn Quarter; 12:00
Professor Hendrickson

18. **Tacitus.**—In this course selections from the *Annales* or *Historiae* will be read, with special regard to content and style. A study will be made of the political and social conditions of the times, and of the main characteristics of the author's style.
Mj. Winter Quarter; 2:00
Assistant Professor Laing

19. **Seneca: Selections from the Prose Writings.**—The selections will exhibit Seneca's philosophical and religious views, and the literary characteristics of the school of writing which he represents.
Professor Chandler
[Not to be given in 1906–7]

20. **Plautus.**—The course will deal, on the literary side, with plot, character-drawing, diction, and style; on the linguistic side, with vocabulary, metrical treatment, and ante-classical forms and constructions. It will thus form a suitable introduction to the study of Colloquial Latin, and to the historical and comparative study of Latin Syntax.
Professor Abbott
[Not to be given in 1906–7]

21. **Catullus.**—Reading course.
Professor Hale
[Not to be given in 1906–7]

22. **Terence.**—At least four of the plays will be read, with special reference to their dramatic form, to the structure of the verse, and to scenic antiquities. Some attention will also be given to colloquial and archaic forms and constructions.

PROFESSOR ABBOTT

[Not to be given in 1906–7]

25. **Virgil: "The Georgics;" Tibullus and Propertius.** The work in Virgil will deal with the history of didactic poetry, with Virgil's diction and his treatment of the hexameter, with the construction of the *Georgics* and with their religious and patriotic temper. Sufficient selections will be read from Tibullus and Propertius to exhibit the place and consequence of these poets in the history of the development of the Augustan literature. PROFESSOR CHANDLER

[Not to be given in 1906–7]

27. **Virgil: Æneid, Books VII–XII.**

Mj. Winter Quarter; 11:00

ASSOCIATE PROFESSOR MILLER

28. **Tacitus and Suetonius.** — The object of the course will be as much historical as literary. Collateral reading in modern histories of Rome will accompany the study of the authors.

PROFESSOR CHANDLER

[Not to be given in 1906–7]

29. **Juvenal.**—The main object of the course will be as described under Course 15 above; but, in addition, much attention will be paid to the accurate and intelligent rendering of the verse.

Mj. Summer Quarter; 10:30

DR. BECHTEL

30. **Latin Hymns and Christian Prose.** — The two objects of the course are to present a view of the intellectual and moral tendencies of the centuries immediately following the decadence of pagan literature, and to give some acquaintance with the development of later Latin on the side of vocabulary, syntax, and general style.

Mj. Winter Quarter; 9:30

PROFESSOR CHANDLER

31. **The Historical Development of Roman Oratory.** The course will take up the remains of the early orators in Valerius Maximus, Aulus Gellius, Macrobius, and other writers, and will also include selections from Cicero's *Orations* and the *Panegyric* of Pliny. The *Brutus* of Cicero will be used as a general guide; and passages from the *Orator* and *De Oratore* of Cicero, the *Dialogus* of Tacitus, and the *Institutes* of Quintilian will serve as additional commentary.

PROFESSOR CHANDLER

[Not to be given in 1906–7]

32. **Seneca: The Tragedies.**— The history of tragedy will be traced through the extant fragments; and an examination into the sources of the tragedies will be made. The greater part of the course, however, will be devoted to the tragedies of Seneca.

ASSOCIATE PROFESSOR MILLER

[Not to be given in 1906–7]

33. **Later Epic Poetry.** — The course will be based on Lucan, Silius Italicus, and Statius. Their subjects and literary methods will be discussed, and in particular the relation which their epics bear to the *Æneid.* PROFESSOR ABBOTT

[Not to be given in 1906–7]

34. **The Historical Development of Roman Satire, Followed by a Detailed Study of Persius.**— In this course the development of Satire will be traced by the aid of the extant fragments, through Ennius, Lucilius, and Varro, to Horace. Especial attention will be paid to the fragments of Lucilius and of the *Menippean Satires* of Varro.

ASSOCIATE PROFESSOR MILLER

[Not to be given in 1906–7]

35. **Quintilian, Book X.**— Introductory lectures on the principles and technique of ancient literary criticism, followed by a detailed study of the character and sources of the literary criticism in the work named.

M. First Term, Summer Quarter; 11:30

PROFESSOR HENDRICKSON

36. **Cicero: The Philosophical Works.** — Selections will be read from the *De Finibus*, the *Academica*, and the *De Natura Deorum*, with reference both to the philosophical content and to style.

PROFESSOR CHANDLER

[Not to be given in 1906–7]

37. **Roman Thought concerning the Future State of the Soul: I, Studied from the Literature.**—Cicero's *Tusculan Disputations*, Book I, is made the basis for the study. In addition, passages bearing upon the subject will be read from other philosophical works of Cicero, and from his *Letters;* also from Lucretius, Virgil, Horace, Seneca, and other authors.

Mj. Spring Quarter; 9:30

ASSOCIATE PROFESSOR MILLER

37A. **Roman Thought concerning the Future State of the Soul: II, Studied from the Inscriptions.**—The Roman sepulchral inscriptions, as collected in Bücheler's *Carmina Latina Epigraphica*, will be used as material.

ASSOCIATE PROFESSOR MILLER

[Not to be given in 1906–7]

38. **Teachers' General Training Course, I.**—Pronunciation and the reading of prose and verse. Rapid survey of the syntax of the cases, moods, and tenses, and of the principles of Latin order, in connection especially with the authors read in the high school. Exercises in the application of these principles in acquiring the power of reading. Mj. Summer Quarter; 8:00

PROFESSOR HALE

39. **Teachers' General Training Course, II.**—The purpose of this course is to supplement the more specific courses named below. In it certain fundamental subjects, with which all teachers should have a general acquaintance, will be taken up. During the first term such topics will be discussed as the relation of the several fields of classical study to one another; the transmission and reconstruction of classical texts; the formation and use of a critical apparatus; the evidence bearing on certain difficult points in pronunciation; the structure of the common verses, with practical exercises in reading them; the making of a lexicon; the historical sources for a given period, and the method to be employed in testing their credibility. In the second term a critical examination will be made of Cæsar's account of his Gallic campaigns. The purpose and credibility of his narrative, the movements of the army during a chosen period, and military antiquities will be taken up for discussion.

Mj. Spring Quarter; 9:30

MR. ———

40, 41. **Teachers' Training Course.**—A study of the work of one of the four years of the high school, conducted partly through the instruction of a class of young students in the University High School, and partly through informal lectures and the discussion of assigned material in the subject-matter of the course. Members of the course will from time to time take part in the instruction of the University High School class. The course will generally be given for two Quarters, but may be elected by University students for either Quarter, or for both. The subject for the year 1905–6 was Cæsar.

Autumn and Winter Quarter; 8:30

MR. ———

43. **Teachers' Training Course.**—A study, through a single Quarter, of one of the authors taught in the high school. The work will be supplemented from time to time by visits to the corresponding classes in the University High School. The author for the year 1905–6 was Virgil.

ASSOCIATE PROFESSOR MILLER

[Not to be given in 1906–7]

44. **Martial.**—Considerable portions of the authors will be read and studied, with reference to their literary art, and as portraying the state of Roman society under the Early Empire.

PROFESSOR CHANDLER

[Not to be given in 1906–7]

GRADUATE COURSES

50. **Research Course in Livy.**—The course will be based mainly on the early part of Livy's narrative. Special topics, such as the constitution of the centuriate *comitia*, the episode of the decemvirate, and the career of Appius Claudius, will be taken up for consideration.

PROFESSOR ABBOTT

[Not to be given in 1906–7]

51. **Research Course in Roman Politics.**—The political history of the years 62–57, 49–48, and 44–43 B. C. will be studied from the sources; the careers of the leading politicians of those years will be followed, and the character and purposes of the several political parties will be examined. See No. 55.

PROFESSOR ABBOTT

[Not to be given in 1906–7]

52. **Roman Private Life.**—A systematic treatment with illustrations (by lantern views, photographs, etc.) from the remains of ancient art and, in particular, from the remains discovered in Pompeii, Herculaneum, and Rome.

Mj. Autumn Quarter; 2:00

ASSISTANT PROFESSOR LAING

53. **Roman Religion.**—The course will deal with the domestic, gentile, and public worship of the Romans. Special attention will be given to the festivals and priestly orders. The work will be carried on by lectures and reports.

Mj. Spring Quarter; 9:30

ASSISTANT PROFESSOR LAING

4. **Roman Political Institutions.**—The course will deal topically with the magistracies, the senate, the popular assemblies, and the courts of the Republic. It is intended primarily for teachers of Latin or Political Science.

PROFESSOR ABBOTT

[Not to be given in 1906–7]

5. **Roman Provincial Administration.**—A study of the Roman system of government and taxation in the provinces, based mainly upon Cicero's orations against Verres and his letters from Cilicia, Pliny's correspondence with Trajan, and the inscriptions. This course is intended to supplement No. 51. PROFESSOR ABBOTT

[Not to be given in 1906–7]

6. **Early Latin.**—Allen's *Remnants*, Merry's *Fragments of Roman Poetry*, and Bücheler's *Carmina Epigraphica*. The object of the course is especially to give some clear and ordered knowledge of the beginnings of Roman literature. The treatment will be mainly philological and literary.

Mj. Autumn Quarter; 11:00

PROFESSOR ABBOTT

. **Introduction to Latin Epigraphy.**—The course is planned to give students some knowledge of the material which is contained in the *Corpus Inscriptionum Latinarum* for the study of the Latin language and Roman life, and to equip those who go abroad to pursue their studies in Rome, or in museums and libraries elsewhere, with a working knowledge of epigraphy.

PROFESSOR ABBOTT

[Not to be given in 1906–7]

. **Introduction to Latin Paleography.**—The course will consist of lectures by the instructor, and practical work by members of the class upon facsimiles of manuscripts.

PROFESSOR ABBOTT

[Not to be given in 1906–7]

. **The Institutes of Justinian.**—In connection with the reading, comparison will be made with the Institutes of Gaius. Several topics of the Roman private law, especially those concerning the family, will also be studied in their historical development from the early period, Morey's *Outlines of Roman Law* being used as a manual.

DR. BECHTEL

[Not to be given in 1906–7]

History of Roman Literature: Roman Oratory and Ancient Rhetoric.—It is the plan of the Department to offer during one Quarter in each year a course of detailed study in the history of some period or department of Roman Literature. The lectures of the instructor will aim to guide the reading of students, and the primary object of the course will be to afford them assistance in gaining actual acquaintance with representative works of the period or subject under consideration.

Mj. Winter Quarter; 12:00

PROFESSOR HENDRICKSON

62. **Prose of the Late Empire.**—Special attention will be devoted to the development of Christian Latin Prose, and the *Octavius* of Minucius Felix, as well as portions of Augustine's *Confessions* and *De Civitate Dei*, will be read. At the same time the pagan culture of the fourth and fifth centuries will not be neglected, and the collateral reading will include Symmachus and Macrobius.

Mj. Summer Quarter; 9:00

DR. BECHTEL

64. **Research Course in Cicero's Rhetorical Writings.**

Mj. Spring Quarter; 12:00

PROFESSOR HENDRICKSON

65. **Latin Versification and the Rhythms of Latin Prose.**—A study of ancient rhythmical and metrical theory, with practical exercises in reading Latin verse and specimens of rhythmical prose.

Mj. Winter Quarter; 11:00

PROFESSOR HENDRICKSON

66. **Translation as an Art.**—The object of this course is not to present methods of translation for the beginner, from the pedagogical standpoint, but to study the art of producing the translation of a given work as a polished piece of literature. Famous translations will be studied as models; the principles governing artistic translation will be observed and formulated; and practice will be given the student in applying these principles in the translation of varied selections.

ASSOCIATE PROFESSOR MILLER

[Not to be given in 1906–7]

67, 68. **Catullus:** Research Course. Latin Paleography with special reference to the text of Catullus.

PROFESSOR HALE.

[Not to be given in 1906–7]

70. **History of Virgilian Interpretation.**—The ancient, mediæval, and modern masters of Virgilian interpretation and criticism will be studied, and their attitude and method noted. Of the modern

students of Virgil especial attention will be given to the English, French, and German schools. (See Department XVI.)

Mj. Spring Quarter; 8:30
ASSOCIATE PROFESSOR MILLER

71. **Latin Poetry: Lectures and Studies.**—The field of Latin Poetry will be studied under the five great divisions of dramatic, epic, satiric, lyric, and didactic poetry, a survey of each division being made chronologically. Lectures by the instructor will be supplemented by studies presented in the form of papers by the class.

ASSOCIATE PROFESSOR MILLER
[Not to be given in 1906–7]

72. **Research Course: The Latin Romance.** — Atter tion will be directed in the main upon Petroniu and Apuleius. Readings from these author will be supplemented by informal lectures o the history and characteristics of the Lati Romance. Papers will be presented from tim to time by the members of the class.

PROFESSOR ABBOTT
[Not to be given in 1906–7]

73. **Research Course in Tacitus: The Agricola an Dialogus.**

M. First Term, Summer Quarter; 10:3
PROFESSOR HENDRICKSON

THE SEMINARS

75, 76, 77, **Seminar 1: Horace, the Odes, Sermones, and Epistulae, with the History of Roman Satire.**—This seminar is especially planned for students who are beginning graduate work. It will aim to familiarize them with the first principles of text criticism, with the proper use of the literature, and with methods of investigation.

ASSISTANT PROFESSOR LAING AND
PROFESSOR HENDRICKSON
[Not to be given in 1906–7]

78, 79. **Seminar 2: Roman Historiography.** — The material chosen for interpretation will be the *Agricola* of Tacitus and the Corbulo episode from the *Annals*.

PROFESSOR HENDRICKSON
[Not to be given in 1906–7]

80, 81. **Seminar 3: Colloquial Latin.** — The object of the Seminar will be to investigate some of the characteristics of colloquial Latin in the matter of lexicography, pronunciation, syntax, an style, and to determine to some extent the rel tion of colloquial to literary Latin, as well a its connection with archaic Latin on the on hand, and with the Romance languages on th other.

2Mj. Autumn and Winter Quarters: Tue day, 4:00–6:00

PROFESSOR ABBOTT

84. **Research Course: The Comparative Syntax Latin and Greek.**—The work of the Seminar wi deal first with the general question of methods attack in syntactical investigation and the fur damental principles properly governing it, an then with detailed problems. The *Iliad*, Book I–III, and Plautus *Captivi* and *Trinummus* wi be used for material. Papers will be prepare and discussed at meetings of the class.

Mj. Summer Quarter; 11:
PROFESSOR HALE

COURSES IN GREEK AND LATIN OFFERED BY THE DEPARTMENT OF SANSKRIT AND INDO-EUROPEAN PHILOLOGY

2. **Outlines of the Comparative Grammar of Greek and Latin (Sounds and Inflections).** — This course, which is intended primarily for classical students, is meant to be eminently practical, emphasizing those relations which can be understood from a study of the Greek and Latin languages themselves, and the facts which are most helpful to an understanding of the historical development of each language.

Mj. Autumn Quarter; 12:00
PROFESSOR BUCK

3. **Exercises in Greek and Latin Historical Grammar, Based on the Study of Selected Inscriptions.**—The time is equally divided between Greek and Latin, and either half of the work may be take separately as a Minor.

Mj. Winter Quarter; 12:
PROFESSOR BUCK

4. **Historical Latin Grammar.**—Selections and exe cises upon the history of Latin sounds an inflections.

M. First Term, Summer Quarter; 11:
PROFESSOR BUCK

6. **Italic Dialects.**—Buck's *Grammar of Oscan an Umbrian* will be used.

M. First Term, Summer Quarter; 10:
PROFESSOR BUCK

COGNATE COURSES IN OTHER DEPARTMENTS

According to the student's individual bent, his work ay be furthered by the taking of certain courses in ther Departments. Thus (outside of the courses fered by the Department of Greek) note especially ourses 1 and 11–20 offered by the Department of anskrit and Comparative Philology; Courses 33, 41, and 63 offered by the Department of Romance Languages and Literatures; Courses 103, 109, and 112 offered by the Department of Germanic Languages and Literatures; Courses 21 and 30 offered by the Department of English; Courses 2–4 offered by the Department of the History of Art.

XIII. THE DEPARTMENT OF ROMANCE LANGUAGES AND LITERATURES

OFFICERS OF INSTRUCTION

KARL PIETSCH, Ph.D., *Associate Professor of Romance Philology.*
THOMAS ATKINSON JENKINS, Ph.D., *Associate Professor of French Philology.*
GEORGE CARTER HOWLAND, A.M., *Assistant Professor of Italian Philology.*
MAXIME INGRES, B. ès Lettres, *Assistant Professor of French.*
ELIZABETH WALLACE, S.B., *Assistant Professor of French Literature.*
THEODORE LEE NEFF, Ph.D., *Instructor in French.*
ERNEST JEAN DUBEDOUT, Dr. ès Lettres, *Instructor in French Literature.*
HIRAM PARKER WILLIAMSON, A.M., *Instructor in French.*
HENRI CHARLES EDOUARD DAVID, A.M., *Associate in French.*
MILTON ALEXANDER BUCHANAN, A.B., *Associate in Romance Languages.*

FELLOWS, 1905-6

EARLE BROWNELL BABCOCK, A.B. NANCY HIGGINBOTHAM CATCHING, A.B.

INTRODUCTORY

The *Junior Colleges* provide elementary and intermediate courses in the French language. Students ho have completed these courses commendably, and who have made good use of auxiliary opportunities, may pect to possess a good command of spoken French, an accurate reading knowledge of the language, and an quaintance with the more important modern, and a few classic authors.

In the *Senior Colleges* the student is led to an intelligent appreciation of the masterpieces of classic and odern literature; at the same time his colloquial command is maintained and strengthened. Most of these urses are conducted in French. In addition, the student may elect the elementary and intermediate courses Italian and Spanish.

In the *Graduate School* the instruction consists mainly of courses whose object is to put students in ssession of the results already achieved in Romance linguistics and the history of the Romance literatures. ne first year graduate studies correspond in a general way to the requirements for the "specialist" Master's gree; they are planned to meet the needs of those who are preparing to occupy positions which provide ementary and intermediate instruction in French, Italian, or Spanish. In the second and third years graduate studies the aim is to impart to students, along with much that is in the nature of necessary formation, an appreciation of sound methods of dealing with linguistic and literary facts and theories. This preciation once reached, and granted the needed industry and enthusiasm, the student may attempt search work with good chance of success.

To be admitted as candidates for either of the higher degrees, students must furnish evidence of (*a*) prepation equal to three years' work in modern French (or nine Majors); (*b*) a reading knowledge of either panish or Italian.

The Master's degree.—For the general conditions of candidacy for this degree, see *the Annual egister.* With *Romance as secondary subject,* the requirements are: at least three Majors to be

selected from the first-year graduate courses, one of them being an Italian or a Spanish course. With *Romance as principal subject*, the requirements are: (*a*) Courses 21, 31, 33, 39, 59, and 79, and one additional course, preferably 22, 23, or 41; (*b*) a satisfactory dissertation upon a subject approved by the Head of the Department; this must be presented at least eight weeks before the Convocation at which the candidate expects to receive the degree; (*c*) a satisfactory oral examination before the Faculty of the Department.

The Doctor's degree. — For the general conditions, see the *Annual Register*. With *Romance as secondary subject*, nine Majors are required, to be selected from the regular graduate courses, after conference with the Head of the Department. At least one Major shall be in Spanish or Italian. With *Romance as principal subject* the minimum requirements are: (*a*) eight Majors in French language, four Majors in modern French literature, one Major in Spanish, one Major in Italian, and four additional Majors in either Spanish or Italian; (*b*) a satisfactory dissertation upon a subject which shall have been approved by the Head of the Department at least twelve months before the proposed date of the final examinations; the dissertation must be presented in a form practically complete at least four months before the Convocation at which the candidate expects to receive the degree; (*c*) a satisfactory written, and the public oral, examinations, the latter before a committee consisting of the Faculty of the Department and one or more members appointed by the President of the University.

Candidates for the degree of Doctor of Philosophy who desire to specialize in modern French literature may reverse the proportions of linguistic and literary courses in French indicated above, that is, such candidates are required to complete at least four Majors in French language (Courses 31, 33, 39, 41). Under the title "eight Majors in French language" are included a course in Popular Latin and a course in Provençal language and literature (Course 49). Candidates who desire to specialize in Italian or Spanish (or in both) will consult with the Head of the Department in regard to substitutions in the requirements outlined above.

It should be noted that the Doctor's degree will not be conferred merely for faithful and careful work, however great in amount. The candidate must possess special aptitudes for linguistic or literary studies, and show the power to investigate on independent lines. Three years, one of which may profitably be spent abroad, is the minimum of time usually required by those who possess the requisite capacity and preparation.

Two *Scholarships*, each yielding a sum equal to the University tuition fees for three Quarters ($120), are awarded annually in the Spring Quarter. The *Graduate Scholarship* is awarded for excellence in the department studies of the Senior Colleges during the academic year. The *Senior College Scholarship* is awarded for similar excellence in the studies of the Junior Colleges.

The *Fellowships*, each yielding usually the sum of $320, are assigned upon the basis of special aptitude shown in the field of Romance Languages. Applicants should forward to the President of the University definite statements in regard to past courses of study, including degrees, honors received, etc., together with specimens of written or printed work done in the Romance field. Applications must be received by the President **not later than March 1** of each year, and are assigned during the first week of April. No Fellow is permitted to give private instruction of any kind. He is expected to render assistance of some sort in connection with the work of the University, to the extent of not more than one-sixth of his time, and, in general, by example and personal influence, to make the interests of the Department his own.

The *Romance Library*, recently enriched by important additions, adjoins the Libraries of the Departments of English and German. It is supplied with all the principal journals in the French, Spanish, and Italian fields of study, and with the treatises and works of reference necessary to illustrate the courses given and to carry on research work.

The *Cercle de Conversation française* meets once a week during the academic year.

The *Romance Club* meets on the second Tuesday in each month during the academic year. All Graduate students and instructors of the Department are members; journal notices, book reviews, and original papers are read and informally discussed.

It is intended that the graduate courses offered by this Department in the *Summer Quarter* shall, as far as practicable, be so arranged that qualified students may proceed regularly to the higher degrees by attendance in successive Summer Quarters.

COURSES OF INSTRUCTION

I. Courses in French Language and Composition

For the Senior Colleges

10. **Cours de Style.**—Principes généraux, exercices pratiques de composition française.
Mj. SummerQuarter; 9:30
Mj. Spring Quarter; 12:00
Dr. Dubedout

II. Courses in French Literature

For the Senior Colleges (Prerequisite: 9 Majors)

21. **La Littérature Française au 17e siècle.**—Les moralistes: Pascal, La Rochefoucauld, La Bruyère. L'éloquence religieuse: Bossuet et Bourdaloue. Mj. Autumn Quarter; 11:00
Dr. Dubedout

22. **La Littérature Française au 18e siècle.**—Evolution du roman: Le Sage, Prévost, J.-J. Rousseau, Bernardin de St. Pierre.
Mj. Summer Quarter; 10:30
Mj. Spring Quarter; 11:00
Dr. Dubedout

23. **La Littérature Française au 19e siècle.**—Histoire de la critique: Mme de Staël, Chateaubriand, Villemain, Sainte-Beuve, Taine, etc.
Dr. Dubedout
[Not to be given in 1906–7]

39. **Le seizième Siècle en France.**—Origines du classicisme en France; langue et littérature.
Associate Professor Jenkins
[Not to be given in 1906–7]

For the Graduate Schools

25. **Tragédie et Drame, I.**—Histoire critique des théories dramatiques depuis le XVIIe siècle jusqu'à nos jours. Recherches à faire sur quelques points spéciaux sous la direction et avec le concours du professeur.
Mj. Autumn Quarter; 2:00
Dr. Dubedout

26. **Tragédie et Drame, II.**—Le cours précédent sera continué. Mj. Spring Quarter; 2:00
Dr. Dubedout

III. Courses in Phonetics, Versification, and the History of the French Language

For the Senior Colleges (Prerequisite: 9 Majors)

31. **French Phonetics and Prosody.**—(*a*) An acquaintance with the elements of phonetics is considered essential to a correct understanding of the French sounds, and a great help in teaching French pronunciation. The works of Viëtor, Passy, Rousselot, etc. (*b*) The structure of Romance poetry; the points of contact of Romance and English metrics. Mj. Winter Quarter; 8:30
Associate Professor Jenkins

33. **History of the French Language.**—A descriptive course on the origin and general history of standard French, intended also as an introduction to the methods used in historical grammar. Nyrop, *Grammaire historique*, I (2ème éd.).
Mj. Autumn Quarter; 8:30
Associate Professor Jenkins

For the Graduate School

41. **Old French: Elementary Course.**—Grammar and reading. Constans, *Chrestomathie de l'ancien français*, 3ème éd., 1906.
Mj. Summer Quarter; 10:30
Dr. ———
Mj. Autumn Quarter; 9:30
Associate Professor Jenkins

43, 44. **Historical French Grammar, I and II.**—Nyrop. *Grammaire historique*, Tomes I (2ème éd.) et II. Darmesteter, *Grammaire historique*, 4ème partie. A reading knowledge of Old French (see Course 41) is prerequisite.
Associate Professor Jenkins
[Not to be given in 1906–7.]

46. **Mediæval French Literature.**—The literature of the period from Machault to Villon; the French pre-Renaissance. The *Manuals* of Paris and Heuckenkamp; Villon's poems, ed. von Wurzbach, Erlangen, 1903.
Mj. Winter Quarter; 9:30
Associate Professor Jenkins

48. **Old French Seminar.**—The dialects prominent in the literature of the XIIth century; the origins of standard French, its dialectical basis and the causes of its predominance. Suchier, *Altfranzösische Grammatik*, I, 1893.
Associate Professor Jenkins
[Not to be given in 1906–7.]

IV. Courses in Italian, Spanish, and Provençal

For the Senior Colleges

59. **Dante.**—*L'Inferno* (Scartazzini's edition).
Mj. Summer Quarter; 11:30
Assistant Professor Howland

79. **Spanish Classics.**—The life and works of Cervantes. Selected dramas of Lope de Vega and

Calderon. These subjects are treated alternately. Mj. Spring Quarter; 2:00
ASSOCIATE PROFESSOR PIETSCH

For the Graduate School

49. **Old Provençal.**—Old Provençal literature and its influence during the Middle Ages. Appel, *Provenzalische Chrestomathie* (Leipzig, 1902).
Mj. Winter Quarter; 3:00
ASSOCIATE PROFESSOR PIETSCH

61. **Old Italian Readings.**—Monaci, *Crestomazia italiana dei primi secoli.*
Mj. Autumn Quarter, 12:00
ASSISTANT PROFESSOR HOWLAND

63. **Historical Italian Grammar.**—Phonology and morphology, especially of the Tuscan dialects. Meyer-Lübke, *Grammatica storico-comparata della lingua italiana* (Torino, 1901).
Mj. Autumn Quarter; 2:00
ASSISTANT PROFESSOR HOWLAND

66. **History of Old Italian Literature.**—From the beginnings to Dante. Lectures. Bartoli, Gaspary, and other works of reference.
Mj. Winter Quarter; 12:00
ASSISTANT PROFESSOR HOWLAND

68. **Italian Seminar.**—Petrarca: the works in Latin and in Italian. Mj
ASSISTANT PROFESSOR HOWLAND
[Not to be given in 1906–7]

81. **Old Spanish Readings.**—Interpretation of selections from Keller, *Altspanisches Lesebuch.* (Leipzig, 1890). Mj. Summer Quarter; 3:00
ASSOCIATE PROFESSOR PIETSCH

83. **Historical Spanish Grammar.**—Sounds and Inflections. Lectures and practical exercises on Old Spanish Texts. R. Menéndez Pidal, *Manual elemental de Gramática histórica española.* (Madrid, 1905.) Mj. Spring Quarter; 3:00
ASSOCIATE PROFESSOR PIETSCH

86. **History of Old Spanish Literature.**—A review of Spanish literature previous to the classic period. Fitzmaurice-Kelly, *Historia de la Literatura española* (Madrid).
ASSOCIATE PROFESSOR PIETSCH
[Not to be given in 1906–7]

88. **Spanish Seminar.**—Exercises, linguistic and literary, based on the *Libro de Buen Amor* of Juan Ruiz, Arcipreste de Hita, ed. Ducamin, Toulouse, 1901.
ASSOCIATE PROFESSOR PIETSCH
[Not to be given in 1906–7]

XIV. THE DEPARTMENT OF GERMANIC LANGUAGES AND LITERATURES

OFFICERS OF INSTRUCTION

STARR WILLARD CUTTING, PH.D., *Professor and Head of the Department of Germanic Languages and Literatures.*
*CAMILLO VON KLENZE, PH.D., *Associate Professor of German Literature.*
†HANS M. SCHMIDT-WARTENBERG, PH.D., *Assistant Professor of Germanic Philology.*
PAUL OSKAR KERN, PH.D., *Assistant Professor of Germanic Philology.*
FRANCIS ASBURY WOOD, PH.D., *Assistant Professor of Germanic Philology.*
PHILIP SCHUYLER ALLEN, PH.D., *Assistant Professor of German Literature.*
MARTIN SCHÜTZE, PH.D., *Instructor in German Literature.*
ADOLF CHARLES VON NOÉ, PH.D., *Instructor in German Literature.*
TORILD ARNOLDSON, A.B., *Instructor in German and Scandinavian Literatures.*
HENRIETTA KATHERINE BECKER, PH.D., *Associate in German.*
JOHN JACOB MEYER, PH.D., *Associate in German.*
CHARLES GOETTSCH, A.B., *Associate in German.*
HANS ERNEST GRONOW, PH.B., *Assistant in German.*
JOSEPH BEIFUS, A.B., *Assistant in German.*

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*Resigned.
†On leave of absence.

FELLOWS, 1905-6

CHARLES GOETTSCH, A.B.
HANS ERNEST GRONOW, PH.B.
GERTRUDE ELLA HALL, A.B.
JOSEPH BEIFUS, A.B., *Holder of Catherine Seipp Traveling Fellowship*

INTRODUCTORY

For students who enter the University with no previous training in German, elementary and intermediate courses are offered, whose primary aim is to enable the student to read and to understand easily and accurately, without translation, German prose of ordinary difficulty. As a logical sequent of this initial instruction, advanced courses in language and literature are offered students who have taken these elementary and intermediate courses at the University of Chicago, or elsewhere. Prose composition, including translation into German of rather difficult English prose and construction of original German essays, is the prime feature of the advanced language work; in literature individual authors or periods of literary development become the subject of lectures, discussions, and themes. A strengthened grasp of the syntactic and stylistic resources of the language will be secured simultaneously with increased literary appreciation.

The German courses of the Junior College (six Majors), plus at least eight Senior College elective Majors, or an equivalent, are required for admission to the graduate work of the Department. Graduate students from other institutions, whose preliminary training in German has been deficient either in quantity or quality, may be required to supplement their previous work by Senior College electives before admission to the standing of Graduate students in the Department. One Senior College elective (Course 11) may be accredited to the Graduate student as resident work.

The aims of the graduate courses offered by the Department are as follows: (1) To acquaint the student already in possession of a practical grasp of the German language with the great movements of literary and linguistic development within the Teutonic field, outside of English. (2) To direct the efforts of students, who have already received the requisite preliminary training, in the investigation of special problems of phonetics, phonology, morphology, syntax, metrics, style, text criticism, and literary history, including especially literary origins and relationships.

Lectures and recitations are employed in the more general, and seminars in the more special and detailed features of the work. Still more personal direction is given by the instructor to the research student.

The Master's degree.—When Germanic Languages and Literatures are chosen, either as the *secondary subject*, or as one of three *co-ordinate subjects*, at least three elementary graduate Majors must be taken, including Gothic. The minimum requirements with Germanic Languages and Literatures as *principal subject* are seven graduate Majors, including Gothic, Old High German, History of the German Language, Outline Course in German Literature, and *Deutscher Satzbau und Stil*, plus a satisfactory thesis upon a subject approved by the Head of the Department and presented by the candidate at least two months before the Convocation at which the degree may be conferred.

The Doctor's degree.—The requirements are: (1) A thorough command of oral and written modern German. (2) Acquaintance with the general history of German literature (e. g., Course 141). (3) Acquaintance with the general development of the German language (e. g., Courses 103, 104, 105, 107). (4) More intimate knowledge of the history of the language or of the literature, according to the prevailing trend of the student's special work. (5) Minute acquaintance of the period within which the materials of the student's dissertation lie. (6) A satisfactory dissertation upon a subject approved by the Head of the Department, and presented by the candidate at least four months before the Convocation at which the degree may be conferred. (7) A satisfactory examination.

Since the Department expects primarily in the candidate some capacity for independent thinking, and for the successful investigation of hitherto unsolved linguistic or literary problems, and since it never recommends conferring the degree for the mere faithful and accurate performance of a prescribed amount of work, no estimate of the maximum time required to prepare for the examination can be given. Three years are the usual minimum.

Fellowships are assigned in accordance with the general regulations of the University. Circulars relating to this subject will be sent on application.

A Senior College Scholarship in German is annually awarded in June to a student who has received the Junior College certificate within the year then ending (October to July). The award is based upon: (*a*) the

completion of the required Junior College German, including Courses XIV, 4, 5, 6, with grade not lower than B; and (*b*) a written and oral examination, to be conducted in German, on some work to be announced each year by this Department. This work is for the year 1906–7 Franz Grillparzer's *Der arme Spielmann* (D. C. Heath & Co.). Candidates will consult the Departmental Examiner concerning such examinations.

A Graduate Scholarship in German is annually awarded in June to a student who has received the Bachelor's degree within the year then ending (October to July). This award is based: (*a*) upon the completion of at least eight Senior College Majors, including Course XIV, 11; and (*b*) a written and oral examination to be conducted in German, on some theme to be announced each year by the Department. The theme for the year 1906–7 will be "Die musikalischen Elemente der Heineschen Lyrik." Candidates will consult the Departmental Examiner concerning such examinations.

The Conrad Seipp Memorial Prizes, founded by Mrs. Catherine Seipp.—Three prizes of $3,000, $2,000, and $1,000 respectively are offered in a competition open to all, save the German Consul at Chicago, the German Consul-General in New York, and the Judges of Prizes, for the three best Monographs upon the subject: "The German Element in the United States, with Especial Reference to its Political, Moral, Social, and Educational Influence." Circulars containing particulars sent on application.

Library.—Through the generosity of Mr. Julius Rosenwald the Department has been able to purchase the library of the late Professor Michael Bernays, embracing about nine thousand volumes. Texts of the eighteenth-century classics in Germany, of the German Romanticists, and of later nineteenth-century writers are the basis of the collection. It also contains a large number of investigations in German literature of the eighteenth and nineteenth centuries. The whole is supplemented by numerous texts of the French classics of the eighteenth century and of mediæval Italian poets. Mr. Paul O. Stensland has generously given the University a valuable collection of about twelve hundred texts and investigations for work in Scandinavian languages and literatures. These recent additions increase the size of the Germanic library to a total of about seventeen thousand volumes. This collection and the libraries of the English and Romance departments are in adjoining rooms and are administered as one. The libraries of other departments as of History, Philosophy, the Classical Languages and Literatures, and also the Newberry Library, the Crerar Library, and the Public Library of the City of Chicago supplement for the student the value of the Germanic library.

A series of literary and linguistic studies by instructors and students of the Department will appear at irregular intervals through the University Press.

Three numbers of this series, (1) *Der Conjunktiv bei Hartmann von Aue*, by Professor Cutting, (2) *Verner's Law in Gothic* and *The Reduplicating Verbs in Germanic*, by Assistant Professor Francis Asbury Wood, and (3) *Inedita des Heinrich Kaufringer*, by Assistant Professor H. Schmidt-Wartenberg, have already been published. Volume VII of the Decennial Publications of the University, published in the summer of 1903, contains the following papers by members of the Department: *The Treatment of Nature in the Work sof Nicolaus Lenau: An Essay in Interpretation*, by Associate Professor von Klenze (pp. 27–109); *Concerning the Modern German Relatives "Das" and "Was" in Clauses Dependent upon Substantivized Adjectives*, by Professor Cutting (pp. 111–31); *Studies in Popular Poetry*, by Assistant Professor Allen (pp. 133–55).

The Germanic Club, including candidates for advanced degrees, other advanced students, and all instructors of the Department, meets twice each Quarter for the reading and discussion of journal reports, reviews, and original papers upon subjects in language and literature within the scope of the regular work of the members.

The German Conversation Club is an organization of Undergraduate and Graduate students under the leadership of a member of the Germanic Department. Its purpose is to arouse and sustain interest in the German language as a vehicle of oral expression. Membership, open to those who have already made some progress in the language, while it entitles the student to no extra academic credit, is prized as a privilege that supplements the regular class work in the direction of greatly increased *Sprachfertigkeit* and *Sprachgefühl.*

COURSES OF INSTRUCTION

III. Graduate Courses

Group A. Courses for Teachers

100. **The Teaching of Modern Languages** (A Study of Methods).—Lectures on the most important methods of modern language instruction. Pedagogic treatment of the main difficulties of pronunciation, grammar, and vocabulary. Selection and criticism of textbooks. Discussions on sight-reading, essay-writing, and kindred topics. Occasional opportunity for practice teaching. Textbooks: Bahlsen, *The Teaching of Modern Languages*, Ginn & Co.; Brebner, *The Method of Teaching Modern Languages in Germany*,

London, 1904; *Methods of Teaching Modern Languages*, D. C. Heath & Co., 1896.

This course will be given in English; a reading knowledge of German and French is, however, indispensable.

Mj. Autumn Quarter; 9:30
ASSISTANT PROFESSOR KERN

101. **Deutscher Satzbau und Stil.**—A sequent of Course 11. The aim of the work is to develop an instinct for idiom and an active sense of the niceties of style, by discussing, varying, and independently reproducing passages from great stylists of the nineteenth century. Open to Senior College students who have taken Course 11. Mj. Spring Quarter; 9:30
ASSISTANT PROFESSOR KERN

GROUP B. COURSES IN LINGUISTICS

103. **Gothic.**—A consideration of Gothic phonology, morphology, and syntax in connection with the reading of selections from the Bible translation of Ulfilas. Mj. Summer Quarter; 1:30
Autumn Quarter; 2:00
ASSISTANT PROFESSOR WOOD

104. **Old High German.**—The reading of selections from Braune's *Althochdeutsches Lesebuch*, with reference to the same author's *Althochdeutsche Grammatik*. This course is a natural sequent of Course 103. Mj. Winter Quarter; 2:00
ASSISTANT PROFESSOR WOOD

105. **Middle High German.**—An introductory course that includes discipline in phonology, morphology, and syntax, derived from the critical reading of Hartmann von Aue, *Der arme Heinrich* (ed. Wackernagel-Toischer). Incidental practice in German prose composition is afforded by translation of the mediæval into the modern idiom.
ASSISTANT PROFESSOR KERN
[Not to be given in 1906–7]

106. **Early New High German.**—After a rapid survey of the Middle High German grammar, the forms of the transition period will be studied with the help of some text of the period of the Reformation. Mj. Spring Quarter; 11:00
ASSISTANT PROFESSOR KERN

107. **Geschichte der deutschen Sprache.**—Vorlesungen im Anschluss an Behaghel's Artikel in Paul's *Grundriss*, I, pp. 526–633. Eine zusammenhängende Entwickelungsgeschichte der hochdeutschen Schriftsprache. Kenntnis des Gotischen, Althochdeutschen und Mittelhochdeutschen wird vorausgesetzt.
ASSISTANT PROFESSOR KERN
[Not to be given in 1906–7]

108. **Introduction to Germanic Philology.**—A knowledge of at least one Germanic dialect is a prerequisite. ASSISTANT PROFESSOR WOOD
[Not to be given in 1906–7]

109. **Old Saxon.**—The work will be based on Holthausen's *Altsächsisches Elementarbuch*. Equally valuable for the student of English and of German.
ASSISTANT PROFESSOR WOOD
[Not to be given in 1906–7]

110. **Middle Low German.**—The work will be based on Lübben's *Mittelniederdeutsche Grammatik*.
ASSISTANT PROFESSOR WOOD
[Not to be given in 1906–7]

111. **Middle Low Franconian.**—The work will be based on Martin's *Reinaert*.
ASSISTANT PROFESSOR WOOD
[Not to be given in 1906–7]

112. **Old Norse.**—The work will be based on B. Kahle, *Altisländisches Elementarbuch*. A knowledge of Gothic is desirable.
Mj. Summer Quarter; 9:00
ASSISTANT PROFESSOR WOOD

Seminars

251. **Problems in Germanic Philology.**—With a Gothic text for a basis, this course aims to show the relation between Germanic and the other Indo-European languages, and the interrelation of the Germanic languages. Problems in phonology, morphology, and semasiology will be studied. Mj. Winter Quarter; 3:00
[Four hours weekly]
ASSISTANT PROFESSOR WOOD

252. **Investigations in Old High German Dialects.**—A careful study of specimens of the principal Old High German Dialects with reference to their relation to Germanic and to one another.
Mj. Autumn Quarter; 3:00
[Four hours weekly]
ASSISTANT PROFESSOR WOOD

GROUP C. COURSES IN LITERATURE

141. **History of German Literature to the End of the Seventeenth Century.**—Lectures. Scherer, *Geschichte der deutschen Litteratur* and Francke, *History of German Literature as Determined by Social Forces*. The course will

acquaint the student with the most important movements in the evolution of German literary life. Mj. Autumn Quarter; 11:00
ASSISTANT PROFESSOR ALLEN

142. **History of German Literature in the Eighteenth and Nineteenth Centuries.**—Lectures. Identical in aim and method with Course 141 of which it is a natural sequent. This course is open, however, to students who have not taken the former one. Mj. Winter Quarter; 11:00
ASSISTANT PROFESSOR ALLEN

145. **Germanische Mythologie.**—Vorlesungen mit Zugrundelegung von Mogk's Artikel in Paul's *Grundriss.* Mj. Autumn Quarter; 2:00
PROFESSOR CUTTING

150. **Geschichte der Mittelhochdeutschen Litteratur.** Vorlesungen mit Übungen.
Mj. Spring Quarter; 2:00
PROFESSOR CUTTING
[Not to be given in 1906–7]

151. **The Nibelungenlied.**—A critical study of its legendary and mythological background, of its composition, and of its language. Some knowledge of Middle High German is a prerequisite for the course.
PROFESSOR CUTTING
[Not to be given in 1906–7]

152. **The German Epic.**—A survey of Early Germanic balladry will be followed by the reading and study of selected passages from the mediæval courtly and popular epics. Papers will be prepared by members of the class.
Mj. Summer Quarter; 4:30
ASSISTANT PROFESSOR ALLEN

154. **Walther von der Vogelweide.**—Vorlesungen über sein Leben und seine Werke unter Berücksichtigung seiner Beziehungen zu früheren und späteren Dichtern.
Mj. Spring Quarter; 2:00
PROFESSOR CUTTING

160. **Deutsche Kulturgeschichte vom Jahre 1200 bis zum Jahre 1550.**—Lectures upon the great cultural movements of this period within the bounds of the old German Empire.
PROFESSOR CUTTING
[Not to be given in 1906–7]

163A. **The Older German Volkslied.**—A history of German popular song from the earliest times to the end of the sixteenth century. Character and origin of the *Volkslied.* Consideration of its importance in the history of German life, art, and literature.
ASSISTANT PROFESSOR ALLEN
[Not to be given in 1906–7]

163B. **Renascence of the German Volkslied in the Eighteenth and Nineteenth Centuries.**—Its influence upon the poetical writings of Goethe, the Romantic School, and the Swabian School. A contribution to the development of the modern German lyric and ballad.
ASSISTANT PROFESSOR ALLEN
[Not to be given in 1906-7]

177. **Herder and the "Storm and Stress" Movement.**—Herder's work is to the study of cultural history in Germany what Darwin's is to that of modern natural science. A thorough study of any of the subsequent movements in German literature, especially of the Classical era and the Romantic School, leads inevitably back to his evolutionary theory, and inquiry into this theory as expressed in his works and reflected, in its most uncompromising applications, in the works of the "Storm and Stress" movement, is fundamental to the understanding of modern German literature. Winter Quarter; 11:00
DR. SCHÜTZE

181. **Relations between Literature and Philosophy, from the Death of Lessing to 1848.**—The Classical era of German literature, and the Romantic movements in Germany, England, and France cannot be understood without a study of the principal tendencies in contemporaneous philosophic thought. It is to fill the gap between technical courses in Philosophy of this period on the one hand, and purely literary courses on the other, that this course is offered.
Lectures in English, assigned reading, and reports. Autumn Quarter; 11:00
DR. SCHÜTZE

182. **Bibliographische Übungen in neuerer deutscher Litteratur.**—Open to advanced Seniors and to Graduate students. M
Winter Quarter; Tuesday and Thursday, 4:00–5:00
DR. VON NOÉ

204. **History of the German Novel.**—A survey in outline of the development of German prose fiction from mediæval times to Goethe will precede an intensive study of the trend of the novel from *Werther* to the present.
Mj. Spring Quarter; 4:00
ASSISTANT PROFESSOR ALLEN

205. **Das deutsche Drama von den ersten Anfängen bis zum Jahre 1550.**
Mj. Winter Quarter; 2:00
PROFESSOR CUTTING
[Not to be given in 1906–7]

206. **History of the German Drama in the Seventeenth and Eighteenth Centuries.**—A study of French pseudo-classical influences in Germany, and of the growth of the national drama of the eighteenth century.
PROFESSOR CUTTING
[Not to be given in 1906–7]

208. **History of the Drama in the Nineteenth Century, under the Influence of Romanticism: Kleist, Hebbel, Grillparzer, Otto Ludwig, Wagner.**
DR. SCHÜTZE
[Not to be given in 1906–7]

210. **The Modern German Drama.**—The evolution of sociological and artistic tendencies in the modern drama beginning with Ibsen.
DR. SCHÜTZE
[Not to be given in 1906–7]

Seminars

261. **Lyric Origins in Germany.**—A comparison of the theories of extraneous origin for Minnesang, together with an investigation of early German folk-poetry and of the lyrics in the *Carmina Burana.* A knowledge of Latin and French, while highly desirable, is not a prerequisite of this course.
Mj. Spring Quarter; Wednesdays, 2:00–4:00
ASSISTANT PROFESSOR ALLEN

262. **Das englische Drama in Deutschland im 16. und 17. Jahrhundert.**—Ein vergleichendes Studium der englischen und der deutschen Bühne unter Berücksichtigung der englischen Komödianten und ihrer Nachfolger.
Mj. Winter Quarter; Wednesdays, 2:00–4:00
PROFESSOR CUTTING

263. **Lessing's Theory of the Drama.**—An examination of Lessing's writings for evidence as to his earlier and later views on plot, motivation, characters, tragedy, comedy, etc. Hours to be arranged.
PROFESSOR CUTTING
[Not to be given in 1906–7]

264. **Goethe's Faust, I and II.**—Problems connected with the genesis and interpretation of the poem.
PROFESSOR CUTTING
[Not to be given in 1906–7]

266. **Heine and Uhland.**—A study of the Romantic Lyric as exemplified in Wilhelm Müller and Eichendorff will precede an investigation of the sources and literary technique of the poems of Heine and Uhland.
Mj. Summer Quarter; Wednesday, 2:30–4:00
ASSISTANT PROFESSOR ALLEN

Attention is called to the following related courses in other Departments, especially valuable to students of Germanic Philology.

X, 1. **General introduction to the Study of Indo-European Philology.** Mj. Autumn Quarter; 11:00
PROFESSOR BUCK

XV, 21, 22. **Old English** (Elementary Course).
2 Mjs. Autumn and Winter Quarters; 12:00
MR. ROYSTER

XV, 23. **Old English: Poetry.**
Mj. Spring Quarter; 2:00
ASSOCIATE PROFESSOR BLACKBURN

XV, 24. **Old English** (Advanced Course).
Mj. Autumn Quarter; 2:00
ASSOCIATE PROFESSOR BLACKBURN

XV, 28. **Chaucer: The Canterbury Tales.**
Mj. Autumn Quarter; 2:00
PROFESSOR MANLY

XV, 31. **Introduction to the Science of Language.**
Mj. Autumn Quarter; 3:00
PROFESSOR MANLY

XV, 83A, B. **The Mediæval Drama.** 2 Mjs
Winter Quarter; 3:00
Spring Quarter; 11:00
PROFESSOR MANLY

XV, 84. **The Drama in England from 1500 to 1600.**
Mj. Winter Quarter; 2:00
ASSISTANT PROFESSOR TOLMAN

XV. THE DEPARTMENT OF ENGLISH

OFFICERS OF INSTRUCTION

JOHN MATTHEWS MANLY, Ph.D., *Professor and Head of the Department of English.*
WILLIAM CLEAVER WILKINSON, D.D., *Professor (Emeritus) of Poetry and Criticism.*
WILLIAM DARNALL MacCLINTOCK, A.M., *Professor of English.*
ROBERT HERRICK, A.B., *Professor of English.*
FRANCIS ADELBERT BLACKBURN, Ph.D., *Associate Professor of English.*
MYRA REYNOLDS, Ph.D., *Associate Professor of English.*
FREDERIC IVES CARPENTER, Ph.D., *Associate Professor of English.*
ROBERT MORSS LOVETT, A.B., *Associate Professor of English.*
ALBERT HARRIS TOLMAN, Ph.D., *Assistant Professor of English.*
*WILLIAM VAUGHN MOODY, A.M., *Assistant Professor of English.*
JAMES WEBER LINN, A.B., *Instructor in English.*
HENRY PORTER CHANDLER, A.B., *Instructor in English.*
PERCY HOLMES BOYNTON, A.M., *Instructor in English.*
†NOTT WILLIAM FLINT, A.B., *Instructor in English.*
EDITH FOSTER FLINT, Ph.B., *Instructor in English.*
CHARLES ANDREWS HUSTON, A.B., *Associate in English.*
JAMES FINCH ROYSTER, A.B., *Associate in English.*
DAVID ALLAN ROBERTSON, A.B., *Assistant in English.*

ROBERT ELKIN NEIL DODGE, A.M., *Assistant Professor of English, University of Wisconsin* (Summer Quarter, 1906).
HARDIN CRAIG, Ph.D., *Preceptor in English, Princeton University* (Summer Quarter, 1906).

FELLOWS, 1905–6

MARGARET DAVIDSON, Ph.B.
ETHEL CLAIRE RANDALL, Ph.B.
JAMES FINCH ROYSTER, A.B.
M. LYLE SPENCER, A.M.

INTRODUCTORY

Graduate students who did not as undergraduates devote especial attention to English should select their work at first from the courses intended primarily for Senior College students. Some familiarity with English studies and some experience in work is presupposed in the courses intended primarily for Graduate students. The following courses, though intended primarily for undergraduates, may be taken by Graduate students and will be credited toward the higher degrees: 5, 6, 7, 21, 22, 28, 31, 42, 43, 44, 46, 47, 48, 72, 85, 86, 87A,B, 88, 90, 130, 160. The following courses are intended primarily for Graduate students and are open to all who are properly equipped for them in knowledge and experience in study: 23, 24, 25, 26, 27, 27B, 29A,B, 30, 33, 34, 35A,B,C, 36, 37A,B, 50, 51, 52, 54, 57, 58, 59, 62, 69, 70A,B, 73, 75, 76, 77, 80, 82, 83A,B, 84, 89, 91, 102, 103, 150, 161.

Fellowships and Scholarships.—The Department is allowed each year to recommend especially promising students for appointment to Fellowships and Scholarships. In 1906–7 three Fellows have been appointed. The Fellowships are of the value of $520 each, the scholarships of $120. Applications for 1907–8 should be addressed to the President of the University before March 1, 1907. In assigning the fellowships preference will be given to persons who have devoted at least one year to graduate study in English and who submit papers indicating capacity for serious work. Scholarships may be assigned to recent graduates from college who have distinguished themselves in their work as well as to graduates of longer standing.

The Master's degree. — No student will be admitted to candidacy for the Master's degree in English who has not the equivalent of the required courses in English and four of Courses 42–48. The Master's degree may be obtained in two ways: (*a*) As representing a continuation of the College course. In this case the

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*Absent on leave.
†Deceased.

student must present three graduate courses in each of three Departments and pass a satisfactory examination upon these courses. (*b*) As representing a certain amount of specialization. In this case the student must present seven graduate courses in one Department, accompanied by a satisfactory thesis upon some special topic, approved by the Head of the Department, and must pass an examination upon the thesis and the courses presented. Students in the Department of English desiring the degree upon either plan must submit to the Head of the Department reports from their instructors; otherwise they cannot be recommended for enrolment as candidates. The thesis must be presented to the Head of the Department eight weeks before the Convocation at which the candidate desires to receive the degree.

The Doctor's degree.—All candidates for the Doctor's degree in English, whatever may be their special field of work, must have a good knowledge of the general history of English Literature and a fair equipment in Old and Middle English. The minimum requirement in the former may be roughly indicated as represented by Courses 36, 42, 43, 44, 46, 47, 48, 51, 70, 71, 150, 160; this minimum is permitted only to those whose special interest is in linguistic study and who consequently take as their secondary subject either Germanic or Romance Philology; such students will of course take special linguistic courses in English. The minimum requirement in linguistic work for students whose special interest lies in the study of literature and literary history may be roughly indicated as given in Courses 21, 22, 23, 26. 27, 28, 31, 34. Students in this group are strongly advised to choose their secondary subject with immediate reference to its usefulness in the field to which they intend to devote special attention. Of prime importance to those who aim at a broad and enlightened knowledge of English literature in its greatest manifestations is a knowledge of the Greek, the Latin, the French, the Italian, and the German literatures. The relative importance of these varies in accordance with the field of English Literature chosen for special study; but it is believed that a sound knowledge of English Literature and a just appreciation of its phenomena is impossible without a considerable acquaintance with at least one of the great literatures of the civilized world and without some knowledge of the currents of foreign thought which were most influential in England during the period chosen for special study. The Head of the Department and the instructors will be glad to discuss with candidates their special interests and plans and to make suggestions in the furtherance of them.

A satisfactory dissertation upon a subject approved by the Head of the Department must be presented at least four months before the Convocation at which the candidate wishes to receive the degree. After the dissertation has been accepted the candidate must present himself for a special public examination in accordance with the general regulations of the University.

The Doctor's degree is not conferred merely for faithful and accurate work, however great in amount; the candidate must exhibit some capacity for investigation and independent thought. The requirements cannot therefore be stated in terms of years or courses. Three years is, however, usually necessary for a competent student who enters the Graduate School with a good equipment.

Library facilities.—The Library of the Department of English contains 10,000 volumes and increases usually at the rate of about 500 volumes a year. During the year 1904–5 a special fund of $8,000 was appropriated for the purchase of books in English, Germanic, and Romance Philology, and during the year 1906–7 a special fund of $10,000 will be devoted to the English library alone. The libraries of the three Departments constituting the Modern Language Group are in adjoining rooms and are administered as one. Together they contain about 30,000 volumes. Other departmental libraries of especial value to the student of English are those of History, Philosophy, and the Classical Languages and Literatures. Assistance of the greatest importance is constantly afforded by the Newberry Library, the Crerar Library, the Public Library of the city of Chicago, and the General Library of the University, containing about 300,000 volumes each.

COURSES OF INSTRUCTION

Courses in English Composition

5, 6. **English Composition: Advanced Course.** — Courses 5 and 6 should be elected as a whole. These courses are open to students in the Senior Colleges (preferably members of Senior Divisions I–III) and the Graduate School who have attained a high grade in the prescribed Courses 1 and 3, or who otherwise satisfy the instructor of their ability to pursue the work. 2 Mj.

Summer Quarter (English 6); 11:30
Associate Professor Lovett
Winter and Spring Quarters; 11:00
Professor Herrick

7. **Rhetoric and Composition for Teachers.**—(1) The writing and the criticism of themes, with a study of the principles of structure; (2) a study of textbooks and methods of teaching English composition in secondary schools. Students in this course should have had experience in teaching English composition.

M. First Term, Summer Quarter; 9:00
MR. HUSTON

COURSES IN THE ENGLISH LANGUAGE

21. **Old English: Elementary Course.**—Grammar and easy reading—Bright's *Anglo-Saxon Reader.*

Mj. Summer Quarter; 2:30
Autumn Quarter; 12:00
MR. ROYSTER

22. **Old English (continued).**—Readings in prose and the easier poetry, with review of the grammar.

Mj. Winter Quarter; 12:00
MR. ROYSTER

23. **Old English: Poetry.**—Reading of the *Beowulf* with study of meter and of the literary characteristics of Old English poetry.

Mj. Spring Quarter; 2:00
ASSOCIATE PROFESSOR BLACKBURN

24. **Old English: Advanced Course.**—Rapid reading of selected works, both prose and poetry. For Graduate students only. Prerequisites: *Courses 21–23, or their equivalents.*

Mj. Autumn Quarter; 2:00
ASSOCIATE PROFESSOR BLACKBURN

25. **Old English: Special Course.**—Study of some special text with reference to sources, grammatical peculiarities, construction of text, dialect, etc. For Graduate students only.

Mj. Winter Quarter; 2:00
ASSOCIATE PROFESSOR BLACKBURN

26. **Early Middle English.**—Emerson's *Middle English Reader.* Special attention will be given to the grammatical development of the language and to dialectology. Prerequisite: *English 21.*

Mj. Winter Quarter; 3:00
ASSOCIATE PROFESSOR BLACKBURN

27. **Later Middle English.**—The works to be discussed will be announced later.

Mj. Spring Quarter; 3:00
ASSOCIATE PROFESSOR BLACKBURN

27B. **Problems in the Literature of the Fourteenth Century.**

PROFESSOR MANLY
[Not to be given in 1906–7]

28. **Chaucer: The Canterbury Tales.**—An introductory course for students who have had no training in Middle English.

Mj. Summer Quarter; 9:00
DR. CRAIG
Autumn Quarter; 2:00
PROFESSOR MANLY

29A, B. **English Metrical Romances.**—The first Quarter will be devoted to lectures and reports; the second to the investigation of problems. For Graduate students only. Permission of the instructor is necessary for admission to this course.

2Mj.
PROFESSOR MANLY
[Not to be given in 1906–7]

30. **Comparative Grammar of Old English.**—A lecture course on the sounds and the inflections of Old English, intended not only for students of the English language but also for students of general comparative philology, in particular those giving special attention to the Teutonic group. For Graduate students only.

ASSOCIATE PROFESSOR BLACKBURN
[Not to be given in 1906–7]

31. **Introduction to the Science of Language.**—The purpose of the course is to give students some conception of the aims and methods of modern philological study; to acquaint them with the large results of linguistic science and the relations of these to the general history of civilization; and to arouse interest in all questions of the life and growth of human speech. No special linguistic training is necessary for admission to the course.

Mj. Autumn Quarter; 3:00
PROFESSOR MANLY

33. **The Grammar of Modern English.**—Intended especially for teachers of English.

Mj. Winter Quarter; 3:00
ASSISTANT PROFESSOR TOLMAN

34. **The History of the English Language.**—Open to students who have taken English 21 and 28.

Mj. Spring Quarter; 3:00
MR. ROYSTER

35A, B, C. **English Language Seminar.**—For investigation and special study of linguistic problems. Students are admitted only by permission of the instructor. For Graduate students only.

3Mj. Autumn, Winter and Spring Quarters; Hours to be arranged with the instructor.
ASSOCIATE PROFESSOR BLACKBURN

36. **The History of Old English Literature.**—Lectures on English Literature from the date of the earliest remains to the Norman Conquest.
Mj. Autumn Quarter; 3:00
ASSOCIATE PROFESSOR BLACKBURN

37A, B. **Chaucer.**—Rapid reading and discussion of his works. Primarily for Graduate students. English 28, or its equivalent, is required for admission to this course.
2Mj. Winter Quarter; 2:00
Spring Quarter; 12:00
PROFESSOR MANLY

COURSES IN MODERN ENGLISH LITERATURE

Courses 42–48 cover with some minuteness the history of English literature from the beginning of the modern period down to the present time. They need not be taken in chronological order.

42. **English Literature, 1557–99.**
Mj. Autumn Quarter; 11:00
ASSOCIATE PROFESSOR LOVETT

43. **English Literature, 1599–1660.**
Mj. Winter Quarter; 11:00
ASSOCIATE PROFESSOR LOVETT

44. **English Literature, 1660–1744.**
Mj. Spring Quarter; 9:30
PROFESSOR MACCLINTOCK

46. **English Literature, 1744–98.**
Mj. Autumn Quarter; 8:30
PROFESSOR MACCLINTOCK

47. **English Literature, 1798–1832.**
Winter Quarter; 9:30
MR. LINN

48. **English Literature, 1832–92.**
Mj. Summer Quarter; 10:30
ASSOCIATE PROFESSOR LOVETT
Mj. Spring Quarter; 11:00
MR. LINN

50. **Studies in the Literature of the Elizabethan Period, 1550–1650.**—For Graduate students only. Prerequisite: *English 42, 43, or 85, or their equivalents.*
ASSOCIATE PROFESSOR CARPENTER
[Not to be given in 1906–7]

51. **The Beginnings of the Renaissance and the Reformation in England.**—Lectures on the main currents of literature and civilization in England from the introduction of printing to the accession of Elizabeth; with discussion of the texts in Flügel's *Neuenglisches Lesebuch.* For Graduate students only.
PROFESSOR MANLY
[Not to be given in 1906–7]

52. **Studies in the Literature of the Seventeenth Century.**—For Graduate students only.
ASSOCIATE PROFESSOR CARPENTER
[Not to be given in 1906–7]

54. **Studies in the English Heroic Play.**—For graduate students only.
Mj. Winter Quarter; Mon. and Wed., 4:00–6:00
ASSOCIATE PROFESSOR REYNOLDS

57. **Studies in the Literature of the Classical Period.**—The topic for this year will be the Poetry of John Gay. Students who have taken Course 57 when another topic was dealt with are not debarred from taking it again. For Graduate students only.
Mj. Autumn Quarter; Mon. and Wed. 4:00–6:00
Summer Quarter; 2:30
ASSOCIATE PROFESSOR REYNOLDS

58. **Studies in the Beginnings of the Romantic Movement.**—For Graduate students only. Mj
PROFESSOR MACCLINTOCK
[Not to be given in 1906–7]

59. **Studies in the Literature of the Romantic Period.** For Graduate students only.
Mj. Winter Quarter; Wed. and Fri., 4:00–6:00
PROFESSOR MACCLINTOCK

62. **The Oxford Movement and English Literature.**
[Not to be given in 1906–7]

69. **The Life and Works of Spenser.**—This course is intended primarily for Graduate students, but Senior College students who have passed with credit in English 42 will be admitted.
Mj. Summer Quarter; 10:30
ASSISTANT PROFESSOR DODGE
Spring Quarter; 3:00
ASSOCIATE PROFESSOR CARPENTER

70A, B. **Shakspere.**—A study of all the plays. 2Mj
ASSISTANT PROFESSOR TOLMAN
[Not to be given in 1906–7]

72. **Shakspere's Comedies.**—Primarily for Senior College Students, but can be counted for graduate credit.
Mj. Autumn Quarter; 9:30
PROFESSOR MACCLINTOCK

73. **Problems in Shakspere.**
Mj. Spring Quarter; Wed. and Fri., 4:00–6:00
ASSISTANT PROFESSOR TOLMAN

75. **Milton.**
ASSOCIATE PROFESSOR CARPENTER
[Not to be given in 1906–7]

76. **Wordsworth and the English Romantic Movement.**—For Graduate students only.
PROFESSOR MACCLINTOCK
[Not to be given in 1906–7]

77. **The Critical Writings of Coleridge.**
PROFESSOR MACCLINTOCK
[Not to be given in 1906–7]

80. **English Literature for Teachers.**—A study of typical masterpieces, with special reference to the selection of texts and the aims and methods of teaching literature.
Mj. Summer Quarter; 1:30
ASSOCIATE PROFESSOR REYNOLDS

82. **The Pre-Shaksperean Drama.**—Primarily for Graduate students.
Mj. Summer Quarter; 8:00
DR. CRAIG

83A, B. **The Mediæval Drama.**—The origins and the development of the mediæval forms of the drama; in the second half of the course Miracle Plays, Mysteries, Moralities, and Interludes will be discussed in greater detail than heretofore. For graduate students only.
2Mj. Winter Quarter; 3:00
Spring Quarter; 11:00
PROFESSOR MANLY

84. **The Drama in England from 1500 to 1600.**—A study of the forms of the drama in England at the beginning of the Renaissance; of the influences which shaped the Elizabethan drama; and of dramatic history in the period designated.
Mj. Winter Quarter; 2:00
ASSISTANT PROFESSOR TOLMAN

85. **The Drama in England from 1600 to 1642.**
Mj. Summer Quarter; 11:30
ASSISTANT PROFESSOR TOLMAN
Mj. Spring Quarter; 12:00
PROFESSOR HERRICK

86. **The Drama in the Nineteenth Century.**
ASSOCIATE PROFESSOR LOVETT
[Not to be given in 1906–7]

87A, B. **The History of the Novel in England.** 2Mj
PROFESSOR HERRICK AND MR. LINN
[Not to be given in 1906–7]

88. **The Technique of the Modern Novel.**—Representative English, French, Russian, and Spanish novels will be studied with special reference to structure and technique. Ability to read French is desirable but not absolutely necessary for the course.
Mj. Winter Quarter; 12:00
PROFESSOR HERRICK

89. **Studies in Eighteenth-Century Comedy.**
For Graduate students only.
ASSOCIATE PROFESSOR REYNOLDS
[Not to be given in 1906–7]

90. **The Development of the Literary Essay in England.**
PROFESSOR MACCLINTOCK
[Not to be given in 1906–7]

91. **Ballad and Epic Poetry.**—The English ballads will be studied in the complete collection of Child and Kittredge. *Beowulf* and the *Iliad* will be read in translation; other famous epics will be treated in lectures.
Mj. Summer Quarter; 9:00
Autumn Quarter; 11:00

102. **The History of English Criticism.**
Mj. Spring Quarter; 8:30
PROFESSOR MACCLINTOCK

103. **English Versification.**—A discussion of metrical and rhythmical theories and a historical account of English verse.
[Not to be given in 1906–7]

130. **The Pre-Raphaelite Movement.**
[Not to be given in 1906–7]

150. **The Bibliography of English Literature.**—For Graduate students only.
Mj. Spring Quarter; Tu., and Th., 4:00–6:00
ASSOCIATE PROFESSOR CARPENTER

160. **American Literature.**—A general survey. Primarily for Senior College Students, but may be counted for graduate credit.
Mj. Winter Quarter; 11:00
MR. BOYNTON

161. **Studies in American Literature.**—Special problems in the early literature. Primarily for graduate students.
Mj. Spring Quarter; 9:30
MR. BOYNTON

XVI. THE DEPARTMENT OF GENERAL LITERATURE

OFFICERS OF INSTRUCTION

A. INSTRUCTOR ATTACHED TO THE DEPARTMENT OF GENERAL LITERATURE

RICHARD GREEN MOULTON, Ph.D., *Professor of Literary Theory and Interpretation and Head of the Department of General Literature.*

B. INSTRUCTORS IN OTHER DEPARTMENTS OFFERING COURSES IN THIS DEPARTMENT

JAMES HAYDEN TUFTS, Ph.D., LL.D., *of the Department of Philosophy.*
HERBERT LOCKWOOD WILLETT, Ph.D., *of the Department of Semitic Languages and Literatures.*
ERNEST DeWITT BURTON, D.D., *of the Department of Biblical and Patristic Greek.*
SHAILER MATHEWS, A.M., D.D., *of the Department of Biblical andPatristic Greek.*
CLYDE WEBER VOTAW, D.B., Ph.D., *of the Department of Biblical and Patristic Greek.*
EDGAR JOHNSON GOODSPEED, D.B., Ph.D., *of the Department of Biblical and Patristic Greek.*
PAUL SHOREY, Ph.D., *of the Department of the Greek Language and Literature.*
GENEVA MISENER, Ph.D., *of the Department of the Greek Language and Literature* (Summer Quarter, 1906).
FRANK JUSTUS MILLER, Ph.D., *of the Department of the Latin Language and Literature.*
GEORGE CARTER HOWLAND, A.M., *of the Department of Romance Languages and Literatures.*
STARR WILLARD CUTTING, Ph.D., *of the Department of Germanic Languages and Literatures.*
MARTIN SCHÜTZE, Ph.D., *of the Department of Germanic Languages and Literatures.*
JOHN MATTHEWS MANLY, Ph.D., *of the Department of English.*
WILLIAM DARNALL MacCLINTOCK, A.M., *of the Department of English.*
ROBERT HERRICK, A.B., *of the Department of English.*
MYRA REYNOLDS, Ph.D., *of the Department of English.*
ALBERT HARRIS TOLMAN, Ph.D., *of the Department of English.*
ROBERT ELKIN NEIL DODGE, A.M., *of the Department of English* (Summer Quarter, 1906).

INTRODUCTORY

The Heads and acting Heads of Departments VIII–XVI compose the Committee of Management for Department XVI.

The Department of General Literature, formerly known as the Department of Literature (in English), has for its theoretic basis the unity of all literature. The purpose of the Department is, by its own courses and by co-operation with Departments VIII–XV, to afford facilities for the study of literature not limited by the divisions between particular languages and peoples.

The courses of the Department are open to students of the Senior Colleges, and to the Graduate School of Arts and Literature. They are designed for two different classes of students: (1) those whose main work is remote from Literature, but who may desire some literary culture as an element of liberal education; (2) those who, whether in their Senior College or their Graduate work, desire to specialize in Literature. [Particular courses in Biblical Literature, where it is so specified, but no others, are open to students of the Junior Colleges who have completed twelve Majors.]

The work of the Department falls into three sections: (*A*) The Theory of Literature, including Literary Interpretation and Literary Criticism. For purposes of practical education it is believed to be impossible without the use of literature in translation to obtain a sufficiently wide induction from literary phenomena to make studies like these scientific. In this section knowledge of the original languages of the literatures concerned may or may not be assumed. (*B*) Comparative Literature, as the term is generally understood. The work of this section will assume knowledge of the original languages of the principal literatures concerned. (*C*) General Literature (irrespective of divisions between particular languages), treated as a part of general culture rather than specialized study. In this section no knowledge will be assumed of any language other than English.

For Senior College courses no knowledge is assumed of any language other than English. They are designed

for students who may desire, at this stage of their education, to gain an intelligent appreciation of the great landmarks of world-literature, acquaintance with which is an essential of liberal education alike for those whose main interests are, and those whose main interests are not, literary. In each period of two years there will usually be offered courses in such subjects as The (English) Bible, Homer and Virgil, The Ancient Classical Drama, Dante, Shakspere, Goethe's *Faust*. In addition there will be a course (No. 1) designed as an introduction to general reading (so far as such reading is in literature), and usually a course in some literary topic of special interest at the present day. The courses can be taken singly; but eight such courses would make a convenient curriculum in General Literature.

While any of the Graduate courses offered in this Department can be taken by itself, special provision is made for students desiring to specialize in General Literature for the A.M. degree. The requirements as to the higher degrees are as follows:

1. Graduate students offering work in this Department for the A.M. (specialist) degree, or as the single secondary subject for the degree of Ph.D., or as the principal subject for the degree of Ph.D., will be required to take courses in Biblical Literature and in Greek-Roman Literature, unless the Department is satisfied that adequate work in these studies has been done by the candidate previously.

2. Graduate students offering work in this Department for the A.M. (specialist) degree must take not less than three and not more than four Majors in Section A, of which Course 40 (or its equivalent) must be one.

3. Graduate students offering work in this Department as the single secondary subject for the degree of Ph.D. must take (*a*) at least two Majors in Section B, (*b*) not less than three and not more than four Majors in Section A, of which Course 40 (or its equivalent) must be one.

4. Graduate students offering work in this Department as the principal subject for the degree of Ph.D. must take at least one-half of their work in Section B, this work involving knowledge of the languages of the principal literatures concerned. They will also be required to take Course 40 (or its equivalent), and two more Majors in Section A. [It is not found practicable at present to offer sufficient courses in Section B to render work in this Department available as principal subject for the degree of Ph.D.]

Department XVI being in its nature supplementary to the other language and literature Departments (VIII–XV), it will often happen that particular courses in those Departments can be substituted for, or used to supplement, courses in General Literature. This is especially the case in regard to Section B.

COURSES OF INSTRUCTION

A. Theory of Literature

40. **Foundation Principles of the Study of Literature.**—This course is designed for students and teachers of literature (whether of literature in general or any particular literature), surveying the position of literature in the field of methodical studies, the lines of special work open to the student, and the problems of the transmission of literary culture by means of education. Mj. Spring Quarter; 9:30
Professor Moulton

40B. **The New Study of Literature.**—This will be an attempt to indicate the modifications in the traditional treatment of the subject consequent upon the recognition of Literature as an independent study, and to show its relations to allied studies. It is intended for students and teachers, whether of literature in general or of any particular literature.
M. First Term, Summer Quarter; 10:30
Professor Moulton

41. **Lectures in the Literary Criticism and Rhetoric of the Ancients.**—See XI, 54.
Professor Shorey
[Not to be given in 1906–7]

42. **The History of English Criticism.**—See XV, 102.
Mj. Spring Quarter; 8:30
Professor MacClintock

45. **Mediæval Drama.**—The origins and development of the mediæval forms of the drama; in the second half of the course Miracle Plays, Mysteries, Moralities, and Interludes will be discussed in greater detail than heretofore.—See XV, 83AB.
2 Mj. Winter Quarter; 3:00
Spring Quarter; 11:00
Professor Manly

46. **Technique of the Modern Novel.**—Representative English, French, Russian, and Spanish novels will be studied with special reference to structure and technique. Ability to read French is desirable, but not necessary for the course.—See XV, 88. Mj. Winter Quarter; 12:00
Professor Herrick

47. Aesthetics.—See I, 7.
PROFESSOR TUFTS
[Not to be given in 1906–7]

B. COMPARATIVE LITERATURE

50. History of Virgilian Interpretation.—The ancient, mediæval, and modern masters of Virgilian interpretation and criticism will be studied, and their attitude and method noted. Of the modern students of Virgil, especial attention will be given to the English, French, and German schools.—See XII, 70.
Mj. Spring Quarter; 8:30
ASSOCIATE PROFESSOR MILLER

52. Relation between Literature and Philosophy from the Death of Lessing to 1848.—The classical era of German literature and the romantic movement in Germany, England, and France cannot be understood without a study of the principal tendencies in contemporaneous thought. It is to fill the gap between technical courses in the philosophy of this period, on the one hand, and purely literary courses, on the other, that this course is offered. Lectures in English, assigned reading, and reports.—See XIV, 181. Mj. Autumn Quarter; 11:00
DR. SCHÜTZE

53. Seminar: Das englische Drama in Deutschland im 16 und 17 Jahrhundert.—Ein vergleichendes Studium der englischen und der deutschen Bühne unter Berücksichtigung der englischen Komödianten und ihre Nachfolger.—See XIV, 262. Mj. Winter Quarter; Wed., 2:00–4:00
PROFESSOR CUTTING

C. GENERAL LITERATURE

65. Isaiah i–xxxix.—See VIII, 60.
M. First Term, Summer Quarter
ASSISTANT PROFESSOR WILLETT

66. Jeremiah.—See VIII, 62.
M. First Term, Summer Quarter
ASSISTANT PROFESSOR WILLETT

70. Introduction to the Books of the New Testament.—See IX, 3. Mj. Summer Quarter
Spring Quarter
PROFESSOR BURTON

71. The Parables of Jesus.—See IX, 20A.
M. First Term, Summer Quarter
PROFESSOR MATHEWS

72. Jesus' Sermon on the Mount.—See IX, 25B.
M. Second Term, Summer Quarter
ASSISTANT PROFESSOR VOTAW

75. Christian Literature to Eusebius.—History of the Ante-Nicene Christian Literature, with reading of assigned portions, partly in original, partly in translation.—See IX, 55.
Mj. Autumn Quarter
ASSISTANT PROFESSOR GOODSPEED

81. General History of Greek Literature.—Intended for those who do not read Greek.—See XI, 22.
Mj. Summer Quarter
PROFESSOR MISENER

82. *A Reading Course for Modern Readers in the Ancient Classical Drama.
Mj. Spring Quarter; 3:00
PROFESSOR MOULTON

111. Ballad and Epic Poetry.—English Ballads will be studied in the complete collections of Child and Kittredge. *Beowulf* and the *Iliad* will be read in translation. Other famous epics will be treated in lectures.—See XV, 91.
Mj. Summer Quarter; 9:00
Autumn Quarter; 11:00
ASSISTANT PROFESSOR TOLMAN

112. Studies in the English Heroic Play.—For Graduates only.—See XV, 54.
Mj. Winter Quarter; Mon., Wed., 4–6
ASSOCIATE PROFESSOR REYNOLDS

113. Life and Works of Spenser.—See XV, 69.
Mj. Summer Quarter; 10:30
ASSISTANT PROFESSOR DODGE

120. Literary Study and Teaching of the (English) Bible.
M. First Term, Summer Quarter; 9:00
PROFESSOR MOULTON

121. *William Morris as a Modern Homer.—The purpose of this course is to study the poetry of William Morris, especially *Sigurd*, as the supreme achievement of English Epic Poetry, naturalizing for our literature in their highest form poetic traditions which have been made familiar in another form by the Music Dramas of Wagner. Mj. Autumn Quarter: 9:30
PROFESSOR MOULTON

*These are primarily Senior College courses; special work will be set for those using them as Graduate courses.

XVII. THE DEPARTMENT OF MATHEMATICS

OFFICERS OF INSTRUCTION

ELIAKIM HASTINGS MOORE, Ph.D., LL.D., *Professor and Head of the Department of Mathematics.*
OSKAR BOLZA, Ph.D., *Professor of Mathematics.*
HEINRICH MASCHKE, Ph.D., *Associate Professor of Mathematics.*
WILLIAM HOOVER, Ph.D., *Non-Resident University Extension Assistant Professor of Mathematics.*
HERBERT ELLSWORTH SLAUGHT, Ph.D., *Assistant Professor of Collegiate Mathematics.*
JACOB WILLIAM ALBERT YOUNG, Ph.D., *Assistant Professor of the Pedagogy of Mathematics.*
LEONARD EUGENE DICKSON, Ph.D., *Assistant Professor of Mathematics.*
ARTHUR CONSTANT LUNN, Ph.D., *Instructor in Applied Mathematics.*
NELS JOHANN LENNES, S.M., *Instructor in Mathematics, Wendell Phillips High School, Chicago* (Summer Quarter, 1906).

GEORGE WILLIAM MYERS, Ph.D., *Professor of the Teaching of Mathematics and Astronomy, the School of Education.*

FELLOWS, 1905-6

GEORGE DAVID BIRKHOFF, A.B. LOUIS INGOLD, A.B., A.M.
WILLIAM RAYMOND LONGLEY, A.B., S.B.

INTRODUCTORY

The following courses introductory to the higher Mathematics are intended for students making Mathematics their principal subject, and partly also for those making Mathematics their secondary subject, in particular for students of Astronomy and Physics:

(*A*) †*Differential and integral calculus* (*3Mj*).
(*B*) †*Solid analytics and determinants; algebraic analysis.*
(*C*) †*Analytic mechanics* (*2Mj*); *theoretical mechanics, vector analysis, theory of the potential.*
(*D*) †*Advanced calculus, including differential equations, definite integrals, Fourier series, elements of elliptic integrals* (*3Mj*); *elements of the theory of functions.*
(*E*) *Synthetic projective geometry; analytic projective geometry; differential geometry* (*2Mj*).
(*F*) *Theory of numbers; theory of invariants; selected chapters of algebra; theory of substitutions with applications to algebraic equations; quaternions.*

Groups (*A*)-(*F*) indicate constituents of six sequences of courses running through the usual academic year from October to June. These sequences vary slightly from year to year, the courses marked with a dagger (†) being given annually, and the other courses being given usually once in two years. Special emphasis will be laid upon the application of Calculus to the solution of analytical, geometrical, and mechanical problems.

The undergraduate student who wishes to specialize in Mathematics should take (*A*) as Junior College Elective, (*B*) in his first Senior College year, and (*C*) and (*D*) in his second Senior College year.

Candidates for the specialist Master's degree in Mathematics are expected to offer for examination the subjects covered by the courses of groups (*A*)-(*D*), and two Majors selected from (*E*)-(*F*), or the equivalents of these subjects, and to present a satisfactory thesis on an assigned topic closely related to one of these subjects.

Candidates for the Doctor's degree with Mathematics as secondary subject are expected to offer for examination the subjects covered by the courses of groups (*A*)-(*D*), or the equivalents of these subjects.

The initial and special courses in the higher Mathematics are intended to give the Graduate student a comprehensive view of modern Mathematics, to develop him to scientific maturity, and to enable him to follow, without further guidance, the scientific movement of the day, and, if possible, to take an active part in it by creative research. The special courses and the research Seminars vary from year to year; they may be

classified in general terms as relating to (*a*) *Algebra and Arithmetic;* (*b*) *Analysis;* (*c*) *Geometry;* (*d*) *Mechanics and Applied Mathematics;* (*e*) *the Foundations and Interrelations of the Mathematical Disciplines as purely abstract deductive systems.* Attention is called to courses of type (*d*) offered by the Departments of Astronomy and Physics.

Candidates for the Doctor's degree with Mathematics as principal subject are expected to present a dissertation, in finished form, embodying valuable results of mathematical inquiry, and to offer for examination the subjects covered by fifteen majors of initial courses of groups (*A*)-(*F*), and by a considerable body of special courses, in each case presumably most closely related to the subject of the candidate's dissertation.

Courses in the history and the teaching of Elementary Mathematics — Arithmetic, Algebra, Geometry, Trigonometry, Analytic Geometry, Calculus, Mechanics — are offered by this Department and the School of Education. These courses embody the conviction that elementary students need to have their mathematics made, not easier, but more perfectly intelligible and attractive, and to this end that teachers should more generally appreciate and utilize in instruction the unity of mathematics, as made up of various most closely interrelated disciplines, and the character of mathematics, as an ideal science developed by abstraction from various more concrete domains, and appealing to the general student by the beauty and completeness of its logical structure, and equally by its richness of applicability in the arts and natural sciences.

Students of Mathematics should understand that the proper arrangement of their course of study in Mathematics is a matter of extreme importance. The best arrangement for a particular student is apt to depend on his previous mathematical career, and can be determined often only by conference between the student and a member of the staff of the Department. The members of the staff are at all times ready to arrange for such conferences.

The courses of the Summer Quarter are designed to meet the needs of those college men and others wishing to study advanced Mathematics, who are able to spend only the summer in residence. The courses of a series of four summer Quarters will be arranged so as to give a wide view of modern Mathematics.

The attention of any student wishing the guidance of the Department in his continuation of the work done in the summer is called to the correspondence courses of the Department, which are given under the auspices of the University Extension Division of the University.

To students in Mathematics are usually assigned three Fellowships. These Fellowships are assigned to those students excelling in their mathematical acquisitions and scholarly abilities who exhibit strongest evidences of marked creative ability in Mathematics. It is a distinct advantage to candidates to have been at least one year in residence at the University. Candidates should file with the President of the University (on application blanks to be secured from the President's Secretary) records of their previous work and distinctions, degrees, and past courses of study, with copies of their written or printed work in Mathematics. Applications should be filed before March 1 of each year. The appointments are made during the first week of April.

Fellows agree not to give private tuition, and may be called upon for assistance in any departmental teaching or other work; in no case, however, will a Fellow be expected or permitted to devote more than one-sixth of his time to such service.

Senior College Scholarship.— This Scholarship is awarded annually at the Summer Convocation to that student admitted to the Senior College during the preceding year who did the best Junior College work in Mathematics. In judging of the work of each candidate for this Scholarship, the Department considers (*a*) the quality of his Junior College work in general; (*b*) the quantity and the quality of his Junior College work in Mathematics; (*c*) the results of the Senior College Scholarship Examination on the subjects: *Trigonometry, College Algebra, and Analytical Geometry.*

Graduate Scholarship.—This Scholarship is awarded annually at the Summer Convocation to that student admitted to the Ogden Graduate School during the preceding year who has been named by the Department as the Senior College honor student in Mathematics. In judging of the work of each candidate for this Scholarship, the Department considers (*a*) the quantity and the quality of his Senior College work in Mathematics; (*b*) the results of the Graduate Scholarship Examination on the subjects: *Differential and Integral Calculus, Solid Analytics and Determinants, Algebraic Analysis, and Advanced Calculus;* (*c*) his promise of success as a Graduate student of Mathematics.

Scholarship Examinations.—The Senior College Scholarship Examination and the Graduate Scholarship Examination are held every Spring Quarter at times and places duly announced in the *Weekly Calendar* or

the *University Record*. Prospective candidates should confer with the Departmental Examiner. Files of papers set at previous Scholarship Examinations are accessible in the Departmental Library.

Library. — The Mathematical Library occupies Room 37 of the Ryerson Physical Laboratory, adjacent to the lecture-rooms of the Department, and is open for the use of Graduate students from 8:30 A. M. to 6:00 P. M. The library contains the more important mathematical periodicals, collected works, treatises, and textbooks.

Models.— A collection of Brill's models: plaster and thread models of quadric surfaces, plaster models of cubic and Kummer's quartic surfaces, models of cyclides and surfaces of constant positive and negative curvature, and thread models of three-dimensional projections of four-dimensional regular bodies.

COURSES OF INSTRUCTION

3. **Analytic Geometry.**—Elements of plane analytics, including the geometry of the conic sections, with an introduction to solid analytics. Prerequisite: *Trigonometry and College Algebra.*
Mj. Summer Quarter; 8:00
ASSISTANT PROFESSOR SLAUGHT
Mj. Autumn Quarter; 12:00
Mj. Spring Quarter; 12:00
ASSISTANT PROFESSOR DICKSON

5. **Surveying.**—A field course including practical work with the instruments. Prerequisite: *Course 1.* Mj. Spring Quarter; 12:00
ASSISTANT PROFESSOR LAVES

6. **Spherical Trigonometry.**—With application to Navigation and Astronomy.
Mj. Winter Quarter: 12:00
ASSISTANT PROFESSOR LAVES
Prerequisite: *Course 1.*

7. **Elementary Mechanics.**—Without the use of Calculus. Mj. Winter Quarter; 8:30
DR. LUNN
Prerequisite: *Course 1.*

15. **Introductory Calculus.**—The elementary fundamental principles, methods, and formulas of differential and integral Calculus will be carefully studied in connection with simple problems of geometry and the physical sciences.
Mj. Summer Quarter; 9:00
DR. LUNN
Mj. Spring Quarter; 12:00
ASSISTANT PROFESSOR YOUNG
Prerequisite: *Trigonometry, College Algebra,* and of *Analytic Geometry* at least an elementary knowledge of graphing.

18, 19, 20. **Calculus, I, II, III.**—The fundamental principles and processes of the differential and integral Calculus, with much use of graphical methods and with much attention to the solving of problems illustrating all phases of the theory and certain important applications to geometry and mechanics and physics.
This course is not open to Graduate Students'
Three consecutive Majors, Autumn, Winter, and Spring Quarters; 8:30.
DR. LUNN AND ASSISTANT PROFESSOR SLAUGHT
Prerequisite: *Courses 1, 2, 3,* or *Course 3* may be taken simultaneously with *Course 18.*

27. **Integral Calculus.**—An elementary course with much practice in connection with applications to problems of geometry, analysis, and physics.
Mj. Summer Quarter; 8:00
DR. LUNN
Prerequisite: *Differential Calculus.*
NOTE—This course provides opportunity for further study of elementary calculus by students of the Senior College. Open also to students of the Junior College.

[ASTRONOMY 5] **Analytic Mechanics.**
Mj. Autumn Quarter; 9:30
ASSISTANT PROFESSOR LAVES

31. **Solid Analytics and Determinants.**
Mj. Winter Quarter; 11:00
PROFESSOR BOLZA
Prerequisite: *Plane Analytics and Calculus.*

32. **Algebraic Analysis.**—The complex number system (of ordinary Algebra). Roots of unity. Theory of equations. Infinite series.
Mj. Summer Quarter; 10:30
ASSISTANT PROFESSOR DICKSON
Mj. Spring Quarter; 9:30
PROFESSOR BOLZA
Prerequisite: *Plane Analytics and Differential Calculus.*

37, 38, 39. **Advanced Calculus: I, II, III.**—The fundamental principles and processes of the Calculus, including the theory of definite integrals, and differential equations, developed in organic relation with problems of Geometry, Mechanics, and Physics.
Three consecutive Majors, Autumn, Winter, and Spring Quarters; 8:30.
PROFESSOR MOORE
Prerequisite: *Differential and Integral Calculus.*

45. **Critical Review of Secondary Mathematics (for Teachers).**—A brief survey of the subject-matter of Secondary Mathematics as seen in the light of modern mathematics, aiming both to organize the theory of the whole scientifically and to gather the products of this work for use in teaching. Mj. Summer Quarter; 2:00
MR. LENNES

Prerequisite: *Working knowledge of Secondary Mathematics.*

47. **History of Mathematics.**—A survey of the development of Secondary Mathematics, with a glimpse of the great epochs in the history of Higher Mathematics. Mj. Spring Quarter; 9:30
ASSISTANT PROFESSOR YOUNG

GRADUATE COURSES

65A, B, C, D. **Reading and Research in Pure Mathematics.**—When in the judgment of the Department it is advisable that students undertake definite mathematical reading and research not closely connected with any current lecture course or Seminar, this work will be directed by one or other of
PROFESSORS MOORE, BOLZA, MASCHKE, DICKSON

66A, B, C, D. **Reading and Research in Applied Mathematics.**—Advisable reading and research will be directed by one or other of
PROFESSORS MOORE, MASCHKE, MYERS, DR. LUNN

71. **Theory of Numbers.**—Elements of the theory of numbers; introduction to the theory of algebraic numbers; finite and infinite groups; finite and infinite fields.
ASSISTANT PROFESSOR DICKSON
ASSISTANT PROFESSOR YOUNG
[Not to be given in 1906–7]

81. **Theory of Substitutions,** with application to the theory of algebraic equations.
Mj. Summer Quarter; 11:30
ASSISTANT PROFESSOR DICKSON

Prerequisite: *A certain facility in abstract reasoning.*

81, 82. **Finite Groups with Applications I, II.**—Substitution groups in connection with the theory of algebraic equations; abstract groups; linear congruence and collineation groups; rotation groups and the simpler of Klein's two treatments of equations of the fifth degree. Seminar discussion of recent results, in particular those of Frobenius.
ASSISTANT PROFESSOR DICKSON
[Not to be given in 1906–7]

84. **Continuous Groups and Differential Equations.**—An illumination of the fundamental concepts and theorems of the Lie theory in connection with various classes of problems of geometry and differential equations.
Mj. Spring Quarter; 2:00
ASSISTANT PROFESSOR DICKSON

94. **Theory of Invariants.**—The theory of binary quantics ("modern higher algebra") with applications to the theory of equations and to geometry.
PROFESSOR BOLZA

Prerequisite: *Theory of Equations and Advanced Calculus.*
[Not to be given in 1906–7]

97. **Algebraic Numbers and Forms.**—An introduction to the theory in the spirit of Kronecker; application to the Galois theory of algebraic equations. Based on J. König's *Einleitung in die allgemeine Theorie der algebraischen Grössen* (Leipzig: Teubner, 1903).
ASSISTANT PROFESSOR DICKSON

Prerequisite: *Theory of Functions I, Theory of Numbers.*
[Not to be given in 1906–7]

111. **Theory of Functions of Real Variables.**—An elementary course, with applications to the Calculus of Variations.
Mj. Summer Quarter; 10:30
PROFESSOR BOLZA

113, 114. **Linear Integral Equations, I, II.**—Theory of algebraic and transcendental matrices, with applications. An advanced course.
2Mj. Autumn and Winter Quarters; 2:00
PROFESSOR MOORE

118, 119. **Calculus of Variations, I, II.**—An advanced two major course on the theory of maxima and minima of definite integrals, with numerous applications to problems of geometry and mechanics. Mj. Winter Quarter; 9:30
Mj. Spring Quarter; 11:00
PROFESSOR BOLZA

121. **Theory of Functions of a Complex Variable.** An introductory course: Geometrical representation of complex quantities, conformal representation, Cauchy's theory, examples of Riemann surfaces. Prerequisite: *Advanced Calculus I, II, III.* Mj. Autumn Quarter; 12:00
ASSOCIATE PROFESSOR MASCHKE

123. **Elliptic Functions.**—An advanced course with applications. Mj. Summer Quarter; 9:00
PROFESSOR BOLZA
Mj. Winter Quarter; 12:00
ASSOCIATE PROFESSOR MASCHKE

Prerequisite: *Theory of Functions of a Complex Variable.*

126. **Linear Differential Equations.**—The general theory with particular reference to differential equations of second order. Special study of the hypergeometric function.
Mj. Spring Quarter; 9:30
ASSISTANT PROFESSOR SLAUGHT

Prerequisite: *Theory of Functions of a Complex Variable.*

128. **Partial Differential Equations.**—With applications to geometry and physics.
ASSOCIATE PROFESSOR MASCHKE
[Not to be given in 1906–7]

131. **Projective Geometry.** — An introductory course.
Mj. Summer Quarter; 11:30
ASSOCIATE PROFESSOR MASCHKE

141. **Modern Analytic Geometry.**—Homogeneous (trilinear) co-ordinates; projective properties of conics. Mj. Autumn Quarter; 11:00
ASSOCIATE PROFESSOR MASCHKE

142. **Higher Plane Curves.**—General properties of algebraic curves. Special study of the curves of the third and fourth order.
Mj. Winter Quarter; 11:00
ASSOCIATE PROFESSOR MASCHKE

151, 152. **Differential Geometry, I, II.**—Theory of twisted curves and surfaces; theory of invariants of differential quantics.
ASSOCIATE PROFESSOR MASCHKE
[Not to be given in 1906–7]

161. **Vector Analysis.**—The elements of vector algebra, vector differentiation and integration, and the linear vector function; illustrated by typical applications to geometry, mechanics, and physics. Mj. Autumn Quarter; 9:30
DR. LUNN

Prerequisite: *Advanced Calculus, I.*

164. **Theory of the Potential.**—The partial differential equations of Mathematical Physics, with especial attention to the Potential. An advanced course.
Mj. Summer Quarter; 10:30
ASSOCIATE PROFESSOR MASCHKE
Mj. Winter Quarter; 9:30
DR. LUNN

Prerequisite: *Theory of Functions.*

THE SEMINARS

Advanced students engaged in or prepared to undertake research work may, on approval of its Director, enter one of the Seminars. The individual members of a Seminar from time to time report to the Seminar on their investigations or on assigned topics. Each Seminar considers in particular certain topics; these topics vary somewhat from year to year. The research work of candidates for the Doctorate receives particular attention and direction.

171, 172, 173. **General Seminar.**—For the consideration of reports of current research and of literature, especially of a fundamental or critical nature. Mj. Summer Quarter; Sat. 8:30–10:30
DR. LUNN

3 Mj. Autumn, Winter, Spring Quarters; Sat., 8:30–10:30.
PROFESSOR MOORE

XVIII. THE DEPARTMENT OF ASTRONOMY AND ASTROPHYSICS

OFFICERS OF INSTRUCTION

EDWIN BRANT FROST, A.M., *Professor of Astrophysics, and Director of the Yerkes Observatory.*
SHERBURNE WESLEY BURNHAM, A.M., *Professor of Practical Astronomy, and Astronomer in the Yerkes Observatory.*
EDWARD EMERSON BARNARD, A.M., Sc.D., *Professor of Practical Astronomy, and Astronomer in the Yerkes Observatory.*
GEORGE ELLERY HALE, S.B., Sc.D., *Non-Resident Professor of Astrophysics.*
KURT LAVES, A.M., Ph.D., *Assistant Professor of Astronomy.*

FOREST RAY MOULTON, A.B., Ph.D., *Assistant Professor of Astronomy.*
JOHN ADELBERT PARKHURST, S.M., *Instructor in Practical Astronomy.*
STORRS BARROWS BARRETT, A.B., *Secretary and Librarian of the Yerkes Observatory.*
ROBERT JAMES WALLACE, *Photophysicist at the Yerkes Observatory.*
* PHILIP FOX, S.B., *Assistant in Astrophysics.*
ARTHUR GRANT STILLHAMER, A.M., *Assistant in Astrophysics.*

FELLOWS, 1905-6

FRANK LOXLEY GRIFFIN, S.B. FRANK CRAIG JORDAN, A.M.

INTRODUCTORY

The work of the Department of Astronomy and Astrophysics naturally divides itself into two parts:

1. Work at the University, comprising: (*a*) elementary instruction in general Astronomy, both theoretical and practical; (*b*) preliminary training in the principles and methods of work underlying the science of Astrophysics, given in part in the undergraduate and graduate courses offered by the Department of Physics; (*c*) graduate and research work in Celestial Mechanics and Practical Astronomy.

2. Graduate and research work in Practical Astronomy and Astrophysics in the Yerkes Observatory at Lake Geneva.

In the work at the University, given by Assistant Professors Laves and Moulton, special emphasis will be laid on the development of the mathematical methods and principles which lie at the basis of the physical sciences. In addition to the annual courses in Descriptive Astronomy, Introduction to Celestial Mechanics, Spherical and Practical Astronomy, Orbits and Ephemerides, and Analytical Mechanics, courses in the various branches of Celestial Mechanics will be given within periods not exceeding three years. The most fundamental subjects will be arranged in a cyclic manner so as to recur at regular intervals, while other more special topics will vary from time to time.

The general object of the instruction will be: (1) to furnish the student an adequate mathematical basis for successful work in Celestial Mechanics; (2) to give such experience and preliminary training in the work of observation and reduction as will enable the student to use intelligently and skilfully any of the astronomical or astrophysical instruments of a modern observatory; (3) to direct research work in Celestial Mechanics.

In the work at the Observatory, attention will be devoted both to the investigations of Practical Astronomy and to those of Astrophysics. The rapid development of the latter science within the last few years has been fully recognized and amply provided for in the design of the Observatory and in its instrumental equipment. The special laboratory facilities will render possible many astrophysical investigations which are necessarily neglected in other institutions. The Observatory will be open to those students only who have completed the necessary preliminary work at the University or its equivalent at other institutions.

Undergraduate students, in the S.B. course, who desire to specialize along the line of Astronomy, are recommended to take *six Majors* in Mathematics, viz.: Differential and Integral Calculus 3; Solid Analytic Geometry 1; Advanced Integral Calculus 2; and *four Majors* in Astronomy, viz.: Analytic Mechanics I and II and Spherical and Practical Astronomy I and II.

Graduate students working for the Master's degree are recommended to choose *three Majors* in the Department of Mathematics, viz.: Differential Equations, 1; Theory of Equations, 2; or in the Department of Physics, viz.: Advanced General Physics 3; and *six Majors* in the Department of Astronomy.

Candidates for the degree of Doctor of Philosophy are expected to make their secondary subject either Mathematics or Physics. Students intending to specialize in the lines of Astrophysics will be required to take the work in Theoretical Physics, Advanced Experimental Physics, Sound and Light, and Physical Manipulation.

Graduate Scholarships, Fellowships, and Docentships, will be assigned in accordance with the general regulations of the University. Details regarding the appointment of Volunteer Research Assistants and Special Investigators at the Yerkes Observatory may be found in the *Annual Register* for 1905–6.

The Departmental Club meets fortnightly on Fridays at 4:00 P.M. in the Ryerson Physical Laboratory, Room 35, for the review of memoirs and books, and for the presentation of results of research. The Club is

* On leave of absence, 1905–6.

conducted by the members of the Faculties of Mathematics and Mathematical Astronomy. Graduate students of Mathematical Astronomy are expected to attend regularly and, so far as possible, to participate actively in the meetings of the Club.

The Department of Astronomy at the University occupies at present rooms on the third floor of the Ryerson Physical Laboratory. For the purpose of instruction in Practical Astronomy a Students' Observatory, consisting temporarily of two small buildings, has been provided west of the quadrangles.* It is equipped with a modern Warner and Swasey equatorial telescope of 6½-inches aperture, provided with a filar micrometer with position circle, a modern Bamberg transit instrument of 3 inches aperture, a Bamberg universal instrument, a Riefler sidereal clock, a chronometer, and various smaller accessories. The laboratory courses offered by the Department of Physics afford excellent preliminary training for the work in Astrophysics.

The Astronomical Library is open to Graduate students under the same conditions as the Mathematical Library, with which it is associated. The Astronomical Library includes many of the fundamental works on Astronomy, several sets of annals, and a number of journals.

A description of the Yerkes Observatory at Lake Geneva and its equipment will be found in the *Annual Register* for 1905–6. The publications of the Department are enumerated in the description of the Observatory.

COURSES OF INSTRUCTION

At the University

Senior College Courses (5–20)

5. **Analytic Mechanics.**
An introductory course.
Mj. Autumn Quarter; 9:30
Assistant Professor Laves
Prerequisite: *Differential and Integral Calculus.*

7. **Spherical and Practical Astronomy.**—An introductory course. W. W. Campbell's *Practical Astronomy* (Macmillan, 2d ed.) is used as a textbook, with ample references to Brünnow's, Chauvenet's, and André's more extended texts. Observations with the 1½-inch Theodolite, the 3-inch Transit instrument, and the 6½-inch Equatorial are conducted in the Students' Observatory. Mj. Spring Quarter; 11:00
Assistant Professor Laves

8. **Spherical Trigonometry.**
Mj. Winter Quarter; 11:00
Assistant Professor Laves

9. **Observatory Work.**—Practice with the Equatorial, Theodolite, and Transit instruments in the Students' Observatory.
Mj or DMj. Summer Quarter; 11:00 and Evening Sessions.
Assistant Professor Laves and ——
Prerequisite: *Courses 3 and XVII, 1-2.*

11. **History of Physical Theories.**
Mj. Spring Quarter; 8:30
Assistant Professor Moulton

Graduate Courses

22. **Introduction to Celestial Mechanics I.**—Central forces; demonstration of law of gravitation; problem of two bodies; the ten integrals of planetary motion; considerations on perturbations; Helmholtz theory of the heat of the sun.
Mj. Winter Quarter; 9:30
Assistant Professor Moulton
Prerequisite: *Course 5.*

23. **Introduction to Celestial Mechanics II** (Determination of Orbits and Special Perturbations).—Properties of conic section motion; determination of two geocentric distances from the observations; determination of elements, and methods of improving them; variations of elements; perturbations of rectangular and polar co-ordinates; numerical differentiation and integration. Mj. Spring Quarter; 9:30
Assistant Professor Moulton

27. **Principal Theories of Planetary Motion.**
Mj. Summer Quarter; 8:00
Assistant Professor Moulton

28. **Secular Perturbations.**
Mj. Winter Quarter; 9:30
Assistant Professor Laves

35. **Lunar Theory I and II.**
Mj. Autumn and Winter Quarters; 8:30
Assistant Professor Moulton

*Room 1 of Ellis Hall serves as an office and computing room.

At the Yerkes Observatory

In the work at the Yerkes Observatory the advanced student is made familiar with modern methods of research in various branches of Practical Astronomy and Astrophysics. In general, the work in progress during the year 1906–7 will probably include: researches in solar physics with the spectroscope, spectroheliograph, and photoheliograph; micrometric observations of double stars, planets, satellites, nebulæ, and comets; photographic studies of stellar spectra and determinations of motions in the line of sight; photography of star clusters, nebulæ, etc.; photographic investigations of stellar parallax; photometric observations; special astrophysical researches. The opportunity of taking part in these investigations is deemed of more advantage to the qualified student than set courses of instruction, but regular programmes of work, with courses of collateral reading, will be laid out as conditions may require. Graduate students wishing to take practical work at the Observatory should first consult the Director of the Yerkes Observatory, Williams Bay, Wis., and obtain his approval.

XIX. THE DEPARTMENT OF PHYSICS

OFFICERS OF INSTRUCTION

ALBERT ABRAHAM MICHELSON, Ph.D., Sc.D., LL.D., F.R.S., etc., *Professor and Head of the Department of Physics.*
CHARLES RIBORG MANN, Ph.D., *Assistant Professor of Physics.*
ROBERT ANDREWS MILLIKAN, Ph.D., *Assistant Professor of Physics.*
CARL KINSLEY, A.M., M.E., *Assistant Professor of Physics.*
HENRY GORDON GALE, Ph.D., *Instructor in Physics.*
GEORGE WINCHESTER, S.B., A.B., *Lecture Assistant in Physics.*
WILLIAM RICHARDS BLAIR, S.B., *Laboratory Inspector.*

FELLOWS, 1905-6

ERNEST FLAMMER, S.B.
JOHN SHARPLESS FOX, A.B.
LACHLAND GILCHRIST, A.B.
LAWRENCE EMORY GURNEY, A.B.

INTRODUCTORY

Within the last twenty years the teaching and practice of Physics has undergone a revolution more complete than that of any of its sister sciences. This result may be attributed, to a very great extent, to the enormous development of its applications to electrical industries. No other industrial application since the invention of the steam-engine has so enhanced the appreciation of the importance of exact knowledge, or given a greater impetus to the search for new truths in the unexplored regions on the borderland of science.

So closely interwoven are the advances in pure science and its applications that it is difficult to say which has been of greater service to the other, but it is evident that it is as ill-advised to ignore the powerful stimulus furnished by the practical development of scientific ideas as it is to belittle the influence which theoretical and experimental science have had on the world's material prosperity.

While it is never safe to affirm that the future of Physical Science has no marvels in store even more astonishing than those of the past, it seems probable that most of the grand underlying principles have been firmly established, and that further advances are to be sought chiefly in the rigorous application of these principles to all the phenomena which come under our notice.

It is here that the science of measurement shows its importance—where quantitative results are more to be desired than qualitative work. An eminent physicist has remarked that the future truths of Physical Science are to be looked for in the sixth place of decimals.

In order to make such work possible, the student and investigator must have at his disposal the methods and results of his predecessors, must know how to gauge them, and to apply them to his own work; and especially must he have at his command all the modern appliances and instruments of precision which constitute a well-equipped laboratory— without which results of real value can be obtained only at immense sacrifice of time and labor.

The science of Astronomy appeals far more powerfully to most people than does Physical Science, which, indeed, to many is scarcely known even by name. The former is as old as history. Its wonders have compelled the attention of mankind from the earliest ages, and it is but a natural consequence that at the present day no important city in the civilized world is without a richly endowed observatory, where a trained corps of astronomers are able to study the phenomena of the life of suns and worlds, and their distribution in time and space.

It is only in very recent times that it has begun to dawn upon the mind of man that there is another world only one degree less complex and wonderful than the stellar universe — the world of molecules and atoms. For the study of these almost infinitesimal systems of pigmy stars we have no telescope nor even microscope to help us; but little by little we are constructing a powerful logical engine which is destined one day to bring the evolutions, rotations, and oscillations of these minute orbs as clearly to the mind's eye as are now the motions of the worlds of the greater, visible universe.

It may be said that this is, in fact, our chief problem—the constitution of matter; and while ultimately this is, and must always be, beyond the scope of our powers, it is as legitimate and worthy an object to extend our knowledge step by step in this direction as to increase our knowledge of the structure of the sidereal universe, even though this can never be completely fathomed.

As in the case of Astronomical observatories the work, while chiefly devoted to furthering the interests of pure science, is nevertheless consistent with the furnishing of valuable information of immediate practical utility, so a Research Laboratory, while carefully preserving its chief and essential feature, may be still practically useful in furnishing authoritative measurements of standards of length, mass, and time, calibration of thermometers, pressure-gauges, comparison of standards, of resistance, electro-motive force, capacity, self-induction, etc.

It is hoped that this outline of the aims and ends of a Physical Research Laboratory, partial and incomplete though it be, may justify the hope and belief that the generosity of the founder of the University and the donor of the Ryerson Physical Laboratory will be supplemented by many other liberally minded men, equally disposed to further so worthy a cause.

In the enthusiasm which inevitably accompanies the work of the investigator, that of the instructor will not be ignored; indeed, it is confidently expected that these two functions will mutually assist each other.

The courses of instruction to be given in the Department of Physics, it is believed, are sufficiently varied to suit the requirements of all classes, including those who desire simply to complete a general education, or to undertake the subject as a disciplinary study; those who wish to pursue it as a preliminary to its application to mechanical, electrical, or civil engineering; or those who intend to make it their life-work.

In each case every opportunity will be taken to present the subject in such a way as to impress the student with the reality of the principles and laws expounded by well-chosen experiments, performed by the instructor and whenever possible by the student himself.

A feature on which considerable stress will be laid is the repetition of the classical experiments of eminent investigators by those Graduate students who are able to undertake them.

It is believed that by this means a great deal of valuable experience will be gained, without the vexatious annoyances encountered in entering upon an original investigation, before having the benefit of such preliminary training.

The University appoints each year a limited number of Fellowships and Graduate Scholarships. Detailed information concerning these and the conditions of their appointment are found in the *Annual Register* for 1905–6.

For a description of the Ryerson Physical Laboratory, see the *Annual Register* for 1905–6.

COURSES OF INSTRUCTION

Graduate Courses

34, 35, 36. **Theoretical Physics.**— A series of lectures, chiefly in Theoretical Physics, Hydrodynamics, Elasticity, Capillarity, Molecular Physics, Thermodynamics, Wave-motion, and Sound. Optical Theories, Electricity and Magnetism. 4 hrs. a week.

Mj. Autumn Quarter; 12:00
Mj. Winter Quarter; 12:00
Mj. Spring Quarter; 12:00

Professor Michelson

Prerequisite: *Physics 11, 12 and 13.*

37, 38, 39. **Experimental Physics.**—A course of laboratory work, chiefly devoted to the repetition of classical experiments, such as: Determination of the Mechanical Equivalent of Heat, Maxwell's "V" Hertzian Oscillation, Relative and Absolute Wave-lengths, etc. Mj. 10 hrs. a week

Autumn, Winter, Spring Quarters
PROFESSOR MICHELSON
AND ASSISTANT PROFESSOR MANN

Prerequisite: *Physics, 16, 17, and 18.*

40, 41, 42, 43. **Research Course.**—This course is intended for those Graduate students who are prepared to undertake special research. Except in the case of a purely mathematical problem, the entire time is to be devoted to work in the laboratory.

20 hrs. a week. Every Quarter.
DMj. Summer Quarter
ASSISTANT PROFESSOR MANN
3DMj. Autumn, Winter, and Spring Quarters
PROFESSOR MICHELSON
AND ASSISTANT PROFESSOR MANN

48. **Spectrometry**—Laboratory work in photographing and measuring the spectra of various elements. Use of the concave grating echelon and interferometer. Mj. Spring Quarter
DR. GALE

51. **Thermodynamics.** — Lectures upon the fundamental principles underlying the mechanical theory of heat and the application of these principles to physical and thermochemical problems.

5 hrs. a week. Mj. Autumn Quarter; 2:00
ASSISTANT PROFESSOR MILLIKAN

52. **Electron Theory.**—A course of graduate lectures covering the work of the last ten years on the electrical properties of gases; the electron theory, and radioactivity.

5 hrs. a week. Mj. Summer Quarter; 10:30
Mj. Spring Quarter; 8:30
ASSISTANT PROFESSOR MILLIKAN

53. **Experimental Electricity.**—A laboratory course in practical electricity involving a study of dynamos, motors, and transformers. 10 hrs. a week.
Mj. Summer Quarter; 2:30-4:30
ASSISTANT PROFESSOR KINSLEY

54. **Electric Waves.**—A discussion of the theory of the generation and detection of electric waves, of stationary waves on wires, and of electric resonance. 5 hrs. a week.
ASSISTANT PROFESSOR KINSLEY
[Not to be given in 1906–7]

57. **The Theory of Alternating Currents.**—A discussion of the distribution of alternating currents in stationary wires, including transformers and long distance circuits, and of dynamos and induction and synchronous motors.
Mj. Summer Quarter; 1:30
ASSISTANT PROFESSOR KINSLEY

XX. THE DEPARTMENT OF CHEMISTRY

OFFICERS OF INSTRUCTION

JOHN ULRIC NEF, PH.D., *Professor and Head of the Department of Chemistry.*
ALEXANDER SMITH, PH.D., *Professor and Director of General and Physical Chemistry.*
JULIUS STIEGLITZ, PH.D., *Professor of Chemistry.*
HERBERT NEWBY McCOY, PH.D., *Assistant Professor of Physical Chemistry.*
JOHN CHARLES HESSLER, PH.D., *Instructor in Chemistry.*
LAUDER WILLIAM JONES, PH.D., *Instructor in Analytical Chemistry.*
THOMAS BRUCE FREAS, A.B., *Curator.*
WILLIS B. HOLMES, PH.D., *Associate in Chemistry.*
EDITH ETHEL BARNARD, S.M., *Associate in Quantitative Analysis.*
OSCAR ECKSTEIN, SC.D., *Research Assistant in Chemistry.*
ELLIOT S. HALL, PH.D., *Research Assistant in Chemistry.*

WALTER STANLEY HAINES, A.M., M.D., *Professor of Chemistry, Pharmacy, and Toxicology, Rush Medical College; Professorial Lecturer on Toxicology.*

FELLOWS, 1905-6

HENRY MAY GOETTSCH, S.B. (Lowenthal Fellow)
WILLIS STOSE HILPERT, S.B.
JAMES WRIGHT LAWRIE, S.B.
ANDREW FRIDLEY McLEOD, A.B.
HERMANN IRVING SCHLESINGER, S.B.

INTRODUCTORY

Research.—Research students in the University, or coming from other institutions, are encouraged to begin research if, and as soon as, their preparation justifies it. Facilities for research in all lines, whether of inorganic, organic, or physical chemistry, are provided. Special opportunities to pursue entirely independent research work will be given to maturer students who have already obtained the Doctor's degree.

Instruction.—The objects of the instruction are to prepare students (1) to teach in colleges or universities; (2) to teach in secondary schools; (3) to fill positions as technical experts or assistants in chemical industries; (4) to become analysts in commercial or sanitary laboratories. The elementary courses may be taken with advantage by students having none of these ends in view.

Special stress will be placed on thorough preparation and symmetrical development of the student's knowledge. The object of the courses will be not so much to train specialists as to prepare the student to undertake intelligently any and every kind of work of a chemical nature. Those intending to become practical chemists will find a thorough course of purely scientific chemistry the best basis for future specialization in any direction whatever. Those who incline toward inorganic chemistry will be required to do much physical and a considerable amount of organic work; those proposing to become organic chemists will be required to do work in inorganic chemistry of a more advanced nature than that given in the elementary and analytical courses, and some physical chemistry, and so forth.

The degree of Ph.D.: Chemistry as major subject.—The requirements for the degree of Doctor of Philosophy (for general University regulations, see p. 11 of this *Circular*) are:

1. The presentation of a thesis embodying the result of original research in General Inorganic, Organic, Physico-Organic, or Physical Chemistry. This must constitute a real contribution to knowledge, and the work is usually done under the direction of an officer of the Department.

2. Specially thorough and mature knowledge of the branches of Chemistry touched by the thesis, and less thorough but sufficient knowledge of other fundamental branches of the science.

The general requirements for all candidates are as follows: Courses 1–3 (or 1A, 2A), 4*, 6–9, 28A, 28B, and two Majors selected from Courses 10, 11, 13A–13G, 14–16; total twelve Majors, of which eight Majors are undergraduate work.

Special requirements in addition to the above, arranged according to the thesis subject, are as follows:

General Chemistry: Courses 25–27, 20 or 31, and two Majors taken from Courses 13, 14, 15, 16, 19, 21, 22, 29–32; total, six Majors.

Organic Chemistry: Courses 6, 20–22, 25, and one Major from 10, 13, 19, 26, 27, 29–32; total, six Majors.

Physico-Organic Chemistry: Courses 15, 20, 21, 25, and 22 or 31, and one Major taken from Courses 10, 13, 19, 26, 27, 29–32; total, six Majors.

Physical Chemistry: Courses 25, 26, 31, 32, and two Majors taken from Courses 10, 13, 14, 16, 19, 20–22, 27; total, six Majors.

In addition to one set of these specific requirements, at least six half-Majors will be chosen from the special lecture courses, 23, 29, 30, 34–38, 40, 42. The research work will require from four to six Quarters.

3. Sufficient work in one or two minor subjects. For instance, if Physics is a minor subject, two years of College Physics, Courses 1, 2, 3, and three of the Courses 11, 12, 13, 16, 17, 18. In addition to the regular minor subject, all candidates are advised to take mineralogy and crystallography (about ½Mj).

4. A reading knowledge of French and German is required of candidates for higher degrees.

The degree of Ph.D.: Chemistry as secondary subject.—When Chemistry is a secondary subject, the requirement is determined after conference with the Head of the Department in which the major work is done. In the past it has consisted of Courses 1, 2, 3, 6, 7, 8, or their equivalent, together with elementary Physical Chemistry (28A and 28B) or Organic Chemistry, according as the major subject belonged to the Physical or the Biological Group.

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* Course 4 may be omitted when advanced lecture and laboratory work in Organic Chemistry is taken.

The Master's degree.—For the specialist Master's degree a dissertation and seven Majors of graduate work in Chemistry are required. These must be selected from Courses 10 to 42, with the approval of the Head of the Department. Courses prerequisite to these must be taken, but cannot be counted in reckoning the seven required Majors. For the non-specialist degree the selection may be made from Courses 8 to 42, with the approval of the Heads of the three Departments concerned.

Special students.—Special or unclassified students, not candidates for a degree, will be received, but in every case they will be required to give evidence, satisfactory to the instructors in the different branches, that their previous training has been sufficient to enable them to derive full profit from the courses they propose to take.

Preparation for teaching.—While students who have not taken the work required for the Doctor's or Master's degree are not usually recommended for college or university positions, the degree of bachelor, with a sufficient amount of work in Chemistry, is at present considered preparation for teaching in secondary schools. In general the work in Chemistry should include Courses 1, 2, 3, 4, 6, 7, 8, 28A, 28B, and 40, or their equivalent, as well as work in the College of Education (see the *Annual Register* for 1905–6). The prospective teacher should secure preparation to teach at least one science besides Chemistry.

Preparation for technical positions.—1. The thorough scientific training in all branches of Chemistry required for the Ph.D. degree forms the best basis for a future career as a chemical expert in any branch of chemical industry. With this preparation, the principles and details of technical processes are quickly grasped, advances in industrial processes are intelligently followed, and newly discovered principles are readily applied.

2. Students who have taken from ten to fifteen Majors of work in the Department are able to fill satisfactorily positions as assistants in technical and analytical laboratories, and after some practical experience to advance to positions of independent responsibility. Students should take at least Courses 1 to 10, inclusive, and one or two Majors in Courses 13A–13G. If possible, Courses 28A and 28B and, according to the choice of work in Organic or Inorganic Chemistry, two or three courses selected from Nos. 12, 14–16, 20–22, 25–27 should be taken in the interest of a broader and more thorough preparation. Students taking such a preparation are given the preference in answering requests received by the Department. Students taking the less complete training mentioned above, however, are also sought by technical firms.

3. The Department gives, with other Departments (notably Physics and Mathematics) of the University and the Department of Manual Training of the University High School, the equivalent of three years of a four years' course in Chemical Engineering. Students are able to take a large part of this work in the purely scientific fundamental branches while candidates for a Bachelor's degree.

Recommendation of Students to Positions.—The Department of Chemistry does not undertake to secure positions for those who have studied in it, but as a matter of fact, worthy students find suitable places quickly, and in the past the demand for chemists of all the kinds mentioned above has far exceeded the supply.

University Fellowships yielding an income of $320 or $520 annually are open to Graduate students in Chemistry. A Fellowship in Chemistry has been endowed since 1901 by Mr. Berthold Loewenthal, of Chicago, as a memorial of his son Joseph B. Loewenthal; it yields an annual income of $420.

The Departmental Library is equipped with an almost complete list of periodicals, past and current, necessary for prosecuting research; it also possesses a large number of reference and handbooks.

A number of general scientific journals and many of the proceedings of learned societies are received in the General Library.

One Senior College and one Graduate Scholarship are awarded yearly in accordance with the general regulations of the University, to two students graduating from the Junior and Senior Colleges respectively.

COURSES OF INSTRUCTION

NOTE.—Courses 6, 7, 8, 9, 10, 11 and 13 are given in the analytical laboratories. The laboratories are open from 8:00 A. M. to 6:00 P. M. (Saturdays only to 1:00 P. M.). The hours of instruction provide for morning and afternoon sections and will be posted in the laboratory.

Courses 8 and 9 will count toward a Master's or the Doctor's degree when Chemistry is the *secondary* subject.

PRIMARILY FOR THE SENIOR COLLEGES

6. **Qualitative Analysis.**—*Introductory Course.*
Mj or DM. 8 or 16 hrs. a week, laboratory.
2 hrs. a week classroom. Lectures, 2:00.
First Term, Summer Quarter
PROFESSOR STIEGLITZ
AND DR. HOLMES
Second Term, Summer Quarter
DR. HOLMES
Autumn Quarter
PROFESSOR STIEGLITZ
Winter and Spring Quarters
DR. JONES

Prerequisite: *Course 3*, or *2A*, or *2B*.

The lectures deal with the chemistry of the analytical reactions, and special attention is given to the development and application of the laws of equilibrium and solutions. This course is, in an important sense, one in advanced general chemistry.

7. **Qualitative Analysis.**—Continuation of Course 6. Hours as in 6. Mj or DM. Summer Quarter
Dr. Holmes
Autumn Quarter
Professor Stieglitz
Winter and Spring Quarters
Dr. Jones

Courses 6, 7, 10 form a continuous course, which may be begun in any Quarter.

The aim of Courses 6, 7, 10 will be to train the student to do intelligent analytical work based on a knowledge of the scientific principles of the subject and to apply and amplify his knowledge of General and Physical Chemistry.

8. **Quantitative Analysis.** — *Introductory Course.* Chiefly laboratory work in gravimetric and volumetric analysis.
Mj or DM. 8 or 16 hrs. a week, laboratory. Lecture 1 hour.
Summer, Autumn, and Spring Quarters.
Miss Barnard
Winter Quarter
Professor Stieglitz and Miss Barnard
Prerequisite: *Qualitative Analysis* (Courses 6 and 7). Medical students will be admitted to the course after having taken Course 6.

9. **Quantitative Analysis.**—Continuation of Course 8. Mj or DM. 10 or 20 hrs. a week, laboratory.
Summer, Autumn, and Spring Quarters
Miss Barnard
Winter Quarter
Professor Stieglitz and Miss Barnard
Courses 8, 9, and 11 form a continuous course, which may be begun in any Quarter.

Primarily for the Graduate School

10. **Advanced Qualitative Analysis.**—Mj or DM. 10 or 20 hrs. a week, laboratory.
Summer Quarter
Dr. Holmes
Autumn Quarter
Professor Stieglitz
Winter and Spring Quarter
Dr. Jones
Open to College students. Continuation of Courses 6 and 7.

11. **Advanced Quantitative Analysis.**—Mj or DM. 10 or 20 hrs. a week.
Summer and Winter Quarters
Professor Stieglitz and Miss Barnard
Continuation of Courses 8 and 9. Open to students in the Senior Colleges.

12. **Elementary Spectrum Analysis (Qualitative).** — Emission (flame and electric spark) and absorption spectra of inorganic substances. Chiefly laboratory work. ½Mj. Winter Quarter
Dr. Jones

13. **Special Methods in Quantitative Analysis.**—Chiefly laboratory work.

13A. Electrolytic Methods.	½Mj or Mj
13B. Special Mineral Analysis.	Mj
13C. Water Analysis.	½Mj
13D. Gas Analysis.	½Mj
13E. Organic Elementary Analysis.	½Mj
13G. Iron and Steel Analysis.	½Mj or Mj
13H. Proximate Food Analysis.	½Mj or Mj

Summer, Autumn, Winter, and Spring Quarters
Professor Stieglitz and Miss Barnard
Prerequisite: *Quantitative Analysis, 8 and 9.*

13F. **Assaying.** — Fire-assay of gold, silver, and lead ores. Mj. Spring Quarter
Mr. ———
Prerequisite: *General Chemistry, Qualitative and Quantitative Analysis* (Courses 8 and 9).

14. **Organic Chemistry.**—Lectures 3 hrs. a week.
Mj. Autumn Quarter; 12:00
Professor Nef
Prerequisite: *General Chemistry and Qualitative Analysis.*

15. **Organic Chemistry.**—Continuation of Course 14.
Mj. Winter Quarter; 12:00
Professor Nef

16. **Organic Chemistry.**—Continuation of Course 15.
M. First Term, Spring Quarter; 12:00
Professor Nef

Courses 14, 15, 16 form a continuous course, covering the compounds of carbon, including the fatty and the aromatic series. The aim of the course will be to take up very thoroughly the simpler compounds, going with great detail into the chemical behavior, the characteristic reactions, and relationships of the different classes of organic compounds, and considering with great care the synthetic methods by which they can be obtained. Richter's or Bernthsen's *Organic Chemistry* is used as a reference book, but recent literature will, in special cases, be considered in detail.

17. **General Organic Chemistry.**—Fatty and aromatic series.
Lectures, 5 hrs. a week.
Mj (or M. First Term). Summer Quarter 8:30.
Dr. Jones
Prerequisite: *General Chemistry and Qualitative Analysis.*

18. **Elementary Organic Preparations.**—Laboratory work; 10 hrs. a week. This course is arranged to accompany the lectures of Course 17. It may be taken without the lectures by students who have had organic chemistry.
½Mj or Mj. Summer Quarter
DR. JONES
Prerequisite: *As in Course 17.*

19. **Toxicology.** ½Mj. Autumn Quarter
PROFESSOR HAINES AND ASSISTANT

19B. **Poisons and Their Detection.**—A conference and laboratory course.
M. Second Term, Spring Quarter
PROFESSOR HAINES

20. **Organic Preparations.**—Laboratory work, 10 or 20 hrs. a week.
Mj or DM. Autumn, Winter, and Spring Quarters. PROFESSOR NEF
Summer Quarter
DR. JONES
Prerequisite: *Qualitative and Quantitative Analysis*, and *Organic Chemistry* (it may be taken simultaneously in connection with lectures on Organic Chemistry). A reading knowledge of German is essential.

21. **Organic Preparations.**—Continuation of Course 20.
Mj or DM.
Autumn, Winter, and Spring Quarters
PROFESSOR NEF
Summer Quarter
DR. JONES

22. **Organic Preparations.**—Continuation of Course 21. Mj or DM.
Autumn, Winter and Spring Quarters
PROFESSOR NEF
Summer Quarter
DR. JONES.

23. **Physical Chemistry Applied to Problems in General Chemistry.**
PROFESSOR SMITH
Prerequisite: *College Physics, General Chemistry, and Qualitative Analysis.*
[Not to be given in 1906–7]

24. **Advanced Inorganic Chemistry.**—Two lectures a week on selected topics. ½Mj.
Winter Quarter
DR. JONES
Prerequisite: *General Chemistry and Qualitative Analysis.*

25. **Inorganic Preparations.**—Laboratory work.
Mj or DM. 10 or 20 hrs. a week
Summer, Autumn, and Winter Quarters
DR. JONES
Prerequisite: *Qualitative and Quantitative Analysis, and a reading knowledge of German.*

26. **Inorganic Preparations.**—Continuation of Course 25. Mj or DM
Autumn and Winter Quarters
DR. JONES

27. **Inorganic Preparations.**—Continuation of Course 26. Mj or DM
Autumn and Winter Quarters.
DR. JONES

28A. **Elementary Physical Chemistry.**—With special reference to Physico-Chemical measurements.
½Mj. Summer and Spring Quarters
ASSISTANT PROFESSOR MCCOY
Prerequisite: *College Physics* (Course 1) *and Qualitative Analysis* (Course 6).

28B. **Practical Physical Chemistry.** ½ Mj or M
First or Second Term, Summer Quarter
ASSISTANT PROFESSOR MCCOY
½Mj. Spring Quarter
ASSISTANT PROFESSOR MCCOY
Prerequisite: *College Physics* (Course 1), *Quantitative Analysis* (Course 8); Course 28A should accompany or precede this course.

29. **Chemical Dynamics.** ½Mj. 2 hrs. a week.
Autumn Quarter; 12:00
ASSISTANT PROFESSOR MCCOY
Prerequisite: *Elementary Physical and Organic Chemistry, including laboratory work; the elements of Calculus.*

29A **Chemical Dynamics and Electro-Chemistry.**
Mj. Summer Quarter
ASSISTANT PROFESSOR MCCOY

30. **Electro-Chemistry.**
½Mj. 2 hrs. a week. Spring Quarter
ASSISTANT PROFESSOR MCCOY
Prerequisite: *Elementary Physical Chemistry, including laboratory work; the elements of Calculus.*

31. **Advanced Physical Chemistry.**—Laboratory course. Mj or DM
Summer, Autumn, and Spring Quarters
ASSISTANT PROFESSOR MCCOY
Prerequisite: *College Physics, 1 year.* Course 29 should accompany or precede this course.

32. **Advanced Physical Chemistry.** — Laboratory course. Continuation of Course 31.

Mj or DM. Summer Quarter; Autumn and Spring Quarters.

ASSISTANT PROFESSOR MCCOY

33. **Research Work.**—This course will include from 30 to 40 hrs. a week of laboratory work, under the special direction of some one of the instructors in the department. It is expected that research work for a Ph.D. thesis will require 4–6 Quarters, 4–6 DMj.

33*a*. *Research in Organic Chemistry.* — Autumn, Winter, and Spring Quarters.

PROFESSOR NEF

33*b*. *Research in General Chemistry.* — Autumn, Winter, and Spring Quarters.

PROFESSOR SMITH

33*c*. *Research in Organic and Physico-Organic Chemistry.* — First Term, Summer Quarter; Autumn, Winter, and Spring Quarters.

PROFESSOR STIEGLITZ

33*d*. *Research in Physical Chemistry.*—Summer, Autumn, and Spring Quarters.

ASSISTANT PROFESSOR MCCOY

Before being admitted to Research, a candidate must satisfy the instructors of the Department, by an oral test, or otherwise, that his previous training has been sufficient.

34. **Physical Chemistry Applied to Organic Problems.** Lectures 2 hrs. a week.

½Mj. Spring Quarter

PROFESSOR STIEGLITZ

Prerequisite: *Organic Chemistry and Elementary Physical Chemistry.*

35. **The Carbohydrates and the Terpenes** (and their derivatives). Autumn Quarter.

PROFESSOR STIEGLITZ

Prerequisite: *Organic Chemistry.*

36. **Organic Nitrogen Derivatives.**— Uric acid series; pyridine, quinone-imides, and phenazine compounds; a discussion of the alkaloids, ptomaines, and organic dye-stuffs.

½Mj. Winter Quarter

PROFESSOR STIEGLITZ

Prerequisite: *Organic Chemistry.*

37. **Special Chapters of Organic Chemistry.**— Lectures, 4 hrs. a week.

M. Second Term, Spring Quarter

PROFESSOR NEF

Prerequisite: *Organic Chemistry.*

38. **The Aromatic Series.**—Lectures, 2 hrs. a week. Spring Quarter.

DR. HESSLER

Prerequisite: *Organic Chemistry.*

39. **The Atomic Theory.** ½ Mj

ASSISTANT PROFESSOR MCCOY

[Not to be given in 1906–7]

40. **Training Course in the Teaching of Chemistry.**— This course, for prospective teachers in secondary schools, will include: (1) In autumn, observation of teaching in several schools in the city and reports on the same; (2) in winter, a series of conferences on the didactic of chemistry; (3) in spring, practice-teaching in the University High School and in the Junior Colleges under criticism and supervision.

1½Mj. Continued through Autumn, Winter and Spring Quarters.

PROFESSOR SMITH

Prerequisite: *Chemistry* 1, 2, 3, 4, 6, 7, 8, 28A, 28B; *Physics* 1, 2, 3, or their equivalents, must precede or accompany this course.

42. **History of Chemistry.** — 2 hrs. a week. Winter Quarter. ½ Mj

DR. HESSLER

[Not to be given in 1906–7]

44. **The Chemistry of Photography.** ½ Mj

[Not to be given in 1906–7]

43. **Club Meetings.**—Meetings will be held twice a month. They may be attended by anyone interested, whether connected with the University or not; the subjects for the meetings will be announced at least one week beforehand.

Summer, Autumn, Winter, and Spring Quarters

VARIOUS MEMBERS OF THE STAFF

XXI. THE DEPARTMENT OF GEOLOGY

OFFICERS OF INSTRUCTION

THOMAS CHROWDER CHAMBERLIN, Ph.D., LL.D., *Professor and Head of the Department of Geology.*
ROLLIN D. SALISBURY, A.M., LL.D., *Professor of Geographic Geology.*
JOSEPH PAXSON IDDINGS, Ph.B., *Professor of Petrology.*
RICHARD ALEXANDER FULLERTON PENROSE, Jr., Ph.D., *Professor of Economic Geology.**
STUART WELLER, Ph.D., *Assistant Professor of Palæontologic Geology.*
WALLACE WALTER ATWOOD, Ph.D., *Instructor in Physiography and General Geology.*
HARLAN H. BARROWS, *Assistant.*
WILLIAM CLINTON ALDEN, Ph.D., *Docent in Field Geology.*

CHARLES KENNETH LEITH, Ph.D., *Lecturer on Pre-Cambrian Geology* (Winter Quarter, 1907).
FREDERICK LESLIE RANSOME, *Lecturer on Ore Deposits* (Winter Quarter, 1907).
MYRON LESLIE FULLER, *Lecturer on Hydrology* (Spring Quarter, 1906).

JAMES HENRY LEES, *Research Assistant*, 1905–6.
THOMAS McDOUGALL HILLS, Ph.B., *Assistant* (Summer Quarter, 1906).
ERNEST DeKOVEN LEFFINGWELL, A.B., *Research Assistant*, 1905–6.

FELLOWS, 1905–6

STEPHEN REID CAPPS, Jr., A.B.
JOEL ERNEST CARMAN, S.B.
GEORGE CHARLTON MATSON, S.B., A.M.
EUGENE WESLEY SHAW, S.B.

INTRODUCTORY

The aim of the Department is to provide systematic training in Geology, including, as constituent sciences, Geography, Mineralogy, Petrology, and the geologic phases of Palæontology. The endeavor is to furnish this training in such a form as to contribute to a liberal education and at the same time to prepare for professional and investigative work in the science. The cultural purpose predominates in the earlier courses and the investigative and professional in the later, but both have a place in all and find their realization in a common method of treatment.

The brief synopses of subjects given under the several courses are intended merely to indicate the general line of topics treated. No hard and fast succession of subjects or rigid modes of procedure are contemplated. Full liberty is reserved to modify the courses, or even to change them somewhat radically, in the interests of better adaptation to the attainments, abilities, and desires of the students who present themselves. In the more advanced courses especially a large measure of individual adaptation is sought, and the courses are held plastic to that end. The scheme of courses rises by a progressive gradation from collective work by classes at the outset to purely individual work at the close.

University Fellowships yielding incomes of from $320 to $520 are open to students in Geology, and are assigned yearly in accordance with the University regulations governing Fellowships.

The Department of Geology occupies quarters in the Walker Museum building. The instrumental and illustrative outfit of the Department has been chosen with a view to the greatest effectiveness. A large and careful selection of geographic illustrative material, embracing relief maps, models, transparencies, photographs, lantern slides, and special devices, besides maps and charts, constitutes an exceptionally effective aid to instruction. The collections have been chosen chiefly with reference to effectiveness and serviceability in

*On leave of absence.

laboratory and lecture-room work. The collection of fossils gives unrivaled facilities for certain lines of palæontological investigations. The Field Columbian Museum is located within a few blocks of the University, and its very extensive collections are open without expense to the members of the Department.

A special geological library is maintained for the use of the Department. It is open throughout the day and constitutes a study-room for students. Between the laboratories and the library, facilities are provided whereby the larger part of the student's work may be done within the rooms of the Department, and in intimate association with the members of the geological Faculty. The geological library embraces about 4,500 volumes. Besides standard works it embraces sets of the more valuable reports of scientific societies, official geological reports of the United States, Great Britain, India, and other countries, the state reports, maps, and charts of the United States Coast and Geodetic Survey, and of the United States Geological Survey, as well as many of those of European and other countries. The library is well supplied with files of geologic and geographic journals.

The *Journal of Geology*, a semi-quarterly magazine, devoted to Geology and allied sciences, is published by the Department. The immediate editorship rests with the members of the geological Faculty, but there are associated with them the heads of geological departments in some of the leading American and European universities, together with several official geologists of this and other countries.

I. *The Doctor's degree.* — The courses expected of candidates for a Ph.D. degree are as follows (some undergraduate courses being included):

A. Geology the Major Subject

1. Where General Geology is the major subject, Courses 7, 8, 9, 11, 12, 13, 15, 16, 18, 20, 21, 22, 30, 31, 32, 36, 39, 40, 41, 43, 44, 45, and 46, or their equivalents, together with special work in the line of the thesis.

2. Where Geographic Geology is the major subject, Courses 7, 8, 9, 13, 15, 16, 18, 20, 36, 38, 40, 41, 43, 44, 45 and 46, or their equivalents, Courses 7 and 10 in Geography, together with special work in the line of the thesis; and in addition a general knowledge of Zoögeography and Geographic Botany.

3. Where Petrology is the major subject, Courses 7, 8, 9, 11, 12, 13, 15, 16, 18, 20, 30, 31, 32, 33, 34, 35 (Courses 30–35 being taken as Double Majors), 36, 37, 38, 39, 40, 41, 42, 44, 45, and 46, or their equivalents, together with special work in the line of the thesis; and in addition Mechanical Drawing, General and Molecular Physics, General Inorganic Chemistry, Qualitative and Quantitative Analysis including rock analysis.

4. Where Palæontologic Geology is the major subject, Courses 7, 8, 9, 10, 13, 15, 16, 18, 20, 21, 22, 24, 25, 26 (the last three as Double Majors), 38, 40, 41, 43, 44, 45, 46, or their equivalents, together with special work in the line of the thesis; and in addition Vertebrate Palæontology, General Biology, Field Zoölogy, General, Field, and Geographic Botany, and Ecology.

In all cases a thorough knowledge of the principles of Physics and Chemistry is presupposed.

B. Geology the Minor Subject

5. Where Geology is the minor subject, nine Majors of work are to be selected from the courses numbered 7 and upward, but these must include Courses 8, 15, 16, and 18.

6. In case Geology is taken as one of two Minors, the candidate is to select from four to six Majors of work from the above courses numbered 7 and upwards, including Courses 15, 16, and 18.

II. *The Master's degree.* — The courses expected of a candidate for a Master's degree, if all his work is taken in the Department, include seven Majors together with a dissertation, the courses to be selected from those numbered 7 and upward. They must include Courses 8, 15, 16, and 18.

In the case of students who have already done a large part of the required graduate work before coming to this University, and who have had much experience in field or laboratory research, the Department endeavors to make a just and reasonable estimate of equivalents, and does not rigidly insist upon the special apportionments of work above indicated.

A special geological library is maintained for the use of members of the Department. It is open throughout the day, and constitutes a study-room for students, to whom the library becomes a literary laboratory.

COURSES OF INSTRUCTION

PRIMARILY FOR SENIOR COLLEGES

7. **Field and Laboratory Course.**—Study of the geography and geology of Chicago and vicinity, and of relief, topographic, and geologic maps. The course will include two field trips (one on Saturday) and three laboratory exercises (or lectures) weekly. For teachers, and for those who wish to learn methods of field work. Open to students who have a knowledge of Physiography and elementary Geology. Class limited to 16.

M. Second Term, Spring Quarter; 2:00
DR. ATWOOD

M. First Term, Summer Quarter; 1:30
MR. HILLS

NOTE.—Students taking this course should take no other course in the afternoon.

8. **Field Geology.** (First Course outside of Chicago).—This course is intended to form an introduction to the more specialized professional courses that follow, and to furnish a basis for the teaching of Geography, Physiography, and elementary Geology. It involves training in stratigraphic, surficial, and other field determinations, together with mapping, sketching, and technical description. The field for the First Term of 1906 is the vicinity of Devil's Lake, Wis.; that for the Second Term, the vicinity of St. Croix Dalles, Wisconsin–Minnesota. (See note below.)

3M. First Term, Summer Quarter
DR. ATWOOD

Repeated. Second Term, Summer Quarter
MR. ———

[May not be given Second Term]

Prerequisites: *Physiography and General Geology.*

NOTE.—The class of the First Term will start June 18; that of the Second Term, July 30, but the course will not be given the Second Term unless the demand is urgent. Members of the class should be at the University at least one day in advance of the starting. Applications for admission to either course should be made early. The classes will be limited to twelve and eight members, respectively.

10. **Elementary Mineralogy and Petrology.** — This course will include the study of the common rock-making minerals, and of the common rocks.

M. First Term, Spring Quarter; 2:00
Laboratory Work; 2:00–4:00
DR. ATWOOD

M. First Term, Summer Quarter; 8:00
Laboratory Work; 8:00–10:00
MR. HILLS

NOTE.—Class limited to 16.

11. **Introduction to Mineralogy. Physical and Geometrical Crystallography.** — Physical characteristics of crystals. General principles of Crystallography. Projection and construction of figures of crystals. Groth, *Physikalische Krystallographie*, etc. Mj. Autumn Quarter; 9:30
PROFESSOR IDDINGS

Prerequisite: *General Physics and General Inorganic Chemistry.*

12. **Descriptive and Determinative Mineralogy**—Essential characteristics of minerals. Laboratory work in testing minerals by chemical and blowpipe methods. Mj. Winter Quarter; 9:30
PROFESSOR IDDINGS

Prerequisite: *Course 11.*

FOR SENIOR COLLEGE AND GRADUATE STUDENTS

13. **Vulcanism and Metamorphism.**—Volcanoes and volcanic phenomena, with a discussion of the theories concerning them. Metamorphic processes and the resulting changes in rocks.

Mj. Spring Quarter; 9:30
PROFESSOR IDDINGS

Prerequisite: *Courses 12 and 16.*

15. **Geographic Geology.**—The origin, development, and destruction of geographic features. The agents and processes involved. Contemporary geographic formations. Significance of landscape contours and geographic outlines. Geophysiognomy. Mj or DMj. Autumn Quarter; 2:00
PROFESSOR SALISBURY
MR. BARROWS, assisting in Laboratory

Course 15 should be followed by Course 16.

Prerequisite: *Physiography, Elementary Geology, Chemistry, and Physics.*

NOTE.—Students intending to specialize in Geology should take this course as a DMj. Occasional field trips on Saturday, some of them taking most of the day, are required.

15A. **Advanced Physiography.**—A course similar to the above, but briefer. M or DM
First Term, Summer Quarter, 10:30
PROFESSOR SALISBURY

[Not to be given in 1906]

16. **Structural Geology and Continental Evolution.** This course is based primarily on the physical history of the North American continent.

Mj or DMj. Winter Quarter; 2:00
PROFESSOR SALISBURY
MR. BARROWS assisting in Laboratory

Prerequisites: *Courses 10 or 12, and 15.* This course should be followed by Course 18.

NOTE.—Students specializing in Geology should take this course as a DMj.

18. **Geologic Life Development.** — A study of the introduction and succession of the ancient forms of life in their geologic relationships, constituting historical Geology studied on the life side.

Lectures: Mon., Wed., Fri., 2:00.
Laboratory: Tues., Thurs., 2:00–4:00.
Mj. Spring Quarter; 2:00
ASSISTANT PROFESSOR WELLER

Prerequisite: *Systematic Zoölogy and Botany*, and *Courses 15 and 16.*

19. **Teachers' Course.**—A course for teachers of Physiography. The principles and the methods of Physiography in secondary schools, and the selection of material to be presented.
PROFESSOR SALISBURY

Prerequisite: *Elementary Physiography and Elementary Geology.*
[Not to be given in 1906]

20. **Field Geology** (Second Course). — Advanced field work, involving the systematic investigation of a formation or an area. A formal report, as nearly as practicable in conformity with the approved methods of official geological reports, is required. The work may be prosecuted during the months of July, August, and September. In all cases, the arrangement must be individual, and the fields will be selected according to the needs of the student. The former glaciation in selected mountain regions of the west, and the drift formations in selected areas in Wisconsin, will be the special topics.
3M. Second Term, Summer Quarter
PROFESSOR SALISBURY AND DR. ALDEN

Prerequisite: *Courses 8, 10, 15, and 16, or their equivalents.*

20A. **Field Geology** (Second Course). — This course involves the systematic investigation of an area in the Mississippi valley, largely in Calhoun County, Illinois, special attention being given to the stratigraphic and structural features of sedimentary formations, and to the use of fossils in the interpretation of stratigraphy. Four weeks will be spent in the field (September 3–29 inclusive), and the course will be completed by the subsequent preparation of a written report.
3M (during September)
ASSISTANT PROFESSOR WELLER

Prerequisite: *Courses 8, 15, 16, 18, or their equivalents.*

NOTE. — Application for this course should be made by August 1.

PRIMARILY FOR GRADUATE STUDENTS

21. **Paleontologic Geology.** — A study of the hard parts of invertebrate animals preserved as fossils, their classification, and their geologic and geographic distribution; followed by special class study of the life of a selected geologic period. Lectures and laboratory work.
Mj. Winter Quarter; 3:00–5:00
ASSISTANT PROFESSOR WELLER

Prerequisite: *Course 2 or its equivalent.*
Desirable antecedents: *Courses 15 and 16.*

22. A continuation of Course 21.
Mj. Spring Quarter
ASSISTANT PROFESSOR WELLER

24, 25. **Special Paleontologic Geology.** — Chiefly individual work on the life of special geological periods or formations, or on other selected themes in historical or applied Paleontology.

Mj or DMj. Winter and Spring Quarters
Hours arranged to suit individual students.
ASSISTANT PROFESSOR WELLER

27. **Continental Evolution.**— A comparative study of continents other than North America.
Mj. Autumn Quarter; 3:00
PROFESSOR SALISBURY

Prerequisite: *Courses 8, 16, and 21.*

28. **Economic Geology.**—A discussion of the nature, occurrence, and uses of non-metallic mineral resources. M. Winter Quarter

Prerequisite: *Same as for Course 29.*
[Not to be given in 1907]

29. **Economic Geology.** — A discussion of the nature and distribution of ore deposits and of the principles of ore depositions.
M. Second Term. Winter Quarter
MR. RANSOME

Prerequisite: *Courses 12 and 16; Inorganic Chemistry and Physics.*

30, 31, 32. **Petrology.** — Megascopical and microscopical characters of rocks; mineral and chemical composition; origin and classification.
Mj or DMj
Autumn, Winter, and Spring Quarters; 3:00
PROFESSOR IDDINGS

Prerequisite: *Course 12.*

These courses may be taken as Majors or Double Majors, according to the amount of laboratory work.

33, 34, 35. — **Special Petrology.** Chiefly individual work in advance of Courses 30, 31, 32.

Mj or DMj. Autumn, Winter, and Spring Quarters. Hours arranged to suit individual students. PROFESSOR IDDINGS

36. **Pre-Cambrian Geology.**—The nature and the distribution of the rocks, and the nature of the problems involved; structural and metamorphic changes.

M or DM. First Term, Winter Quarter
PROFESSOR LEITH

37. **Petrology of Metamorphic Rocks.**—A laboratory course accompanying Course 36.

M or DM. First Term, Winter Quarter
PROFESSOR LEITH

38. **Ore Deposits** (Advanced Course).—A discussion of the origin of a selected class of ore deposits, and of the chemical processes involved in their formation. The class of ores selected will vary from year to year.

M or DM. Second Term, Winter Quarter
MR. RANSOME

Prerequisite: *Courses 13, 16, 29, 30, and Chemistry.*

39. **Building Material.**—An advanced course on building stone, clays, cements, etc.

M. First Term, Winter Quarter

Prerequisite: *Courses 16, 28, and 30.*

[Not to be given in 1907]

40, 41. **Principles and Theories of Geology.**—Critical discussions of principles, fundamental theories, modes of interpretation, and working hypotheses in their application to the leading questions of geological history.

2Mj. Autumn and Spring Quarters; 4:00
PROFESSOR CHAMBERLIN

Prerequisite: *Courses 15 and 16, or their equivalents, the elements of Paleontology and Petrology, and their antecedents.*

43, 44, 45. **Special Geology.** — Chiefly individual work on selected themes under the personal supervision of the professors in charge.

Summer, Autumn, Winter, and Spring Quarters.

PROFESSORS CHAMBERLIN, SALISBURY, IDDINGS, AND WELLER

46. **Field Geology** (Third Course).—This contemplates thorough and systematic work in close conformity to official standards, and, as nearly as possible, individual and independent. The course may form the basis for a Doctor's thesis.

Summer Quarter
PROFESSORS CHAMBERLIN, SALISBURY, IDDINGS, AND WELLER

XXI A. THE DEPARTMENT OF GEOGRAPHY

OFFICERS OF INSTRUCTION

ROLLIN D. SALISBURY, A.M., LL.D., *Professor and Head of the Department of Geography.*
JOHN PAUL GOODE, PH.D., *Assistant Professor of Geography.*
ELLEN CHURCHILL SEMPLE, PH.D., *Assistant Professor* (Summer Quarter, 1906).
HARLAN H. BARROWS, S.B., *Assistant.*

FELLOW, 1905-6

FREDERICK VALENTINE EMERSON, A.B.

INTRODUCTORY

The courses now arranged for in this Department deal with subjects which are intermediate between Geology and Climatology, on the one hand, and History, Sociology, Political Economy, and Biology, on the other. It should be understood that the courses here announced do not include all of the geographic work of the University. The Geography courses which ally themselves with Geology are given in that Department. The courses in Zoögeography, Geographic Botany, and Commercial Geography are given by the Departments of Zoölogy, Botany, Political Economy, respectively.

I. *The Doctor's degree.*—The courses expected of candidates for a Ph.D. degree are as follows (some undergraduate courses being included):

Where Geography is the Major subject:

1. In the Department of Geography, Courses 4, 5, 7, 10, 12, 14, 16, and at least six Majors of advanced individual work, a part of which may be in the line of the thesis.

2. In the Department of Geology, Courses 7, 8, 10, 15 (DMj), 16, 18, 20, 28, and 29.

3. In the Department of Biology, a general knowledge of Zoögeography and Geographic Botany.

4. In the Department of History, a general knowledge of Modern History, and a thorough knowledge of the history of some period and region where geographic influences were an important factor in its course.

5. In the Department of Political Economy, Commercial Geography, and the Elements of Political Economy.

A thorough college course, of not less than one year, in Physics and in Chemistry.

Where Geography is the minor subject, nine Majors of work, which must include all those specified by number under 1 above.

II. *The Master's degree.*—The courses expected of a candidate for a Master's degree, if all his work is taken in the Department, include seven Majors, together with a dissertation. These courses must include Courses 4, 5, 7, 10, and 12, Course 15 in Geology, and courses in the geographic phases of Zoölogy and Botany.

COURSES OF INSTRUCTION

3. **Meteorology and Climatology.**—The principles of Meteorology and their application to the climate of the United States. Climatic influences in the economic and social development of the United States.

M. Second Term, Summer Quarter; 2:30
Mr. Barrows

4. **Principles of Geography.**—The meaning and scope of geography; the relation of the science to other subjects; the distribution and characteristics of land forms and climates; the distribution and utilization of natural resources, such as soils, minerals, plants, and animals, with reference to man's distribution and industrial and social development; an application of the principles developed to the interpretation of type regions.

M. Second Term, Summer Quarter; 11:30
Mr. Barrows

7. **Influence of Geography on American History.**—A study of the geographic conditions which have influenced the course of American history. Their importance as compared with one another, and their importance as compared with non-geographic factors. Familiarity with the leading events of American history, and with the elements of the physiography of the United States, is presupposed. Primarily for teachers of geography and history.

Mj. Winter Quarter; 11:00
Mr. Barrows

8. **Some Principles of Anthropo-geography.**—Various aspects of the relation between Geography and History; grouping of the land masses and its effects; the importance of geographic location; the ocean highway and coast peoples; rivers and river lowland habitat; islands and island peoples; mountain barriers and their passes; mountain agriculture, isolating effect of a mountain environment; life in deserts and steppes.

M. First Term
Dr. Semple

10. **Economic Geography of North America.**—A study of the natural resources of the continent, as factors in its economic development. The geology, the physiography and the climate, treated as factors determining or affecting the location and utilization of mineral resources, arable and grazing lands, forests, etc. The influence of these various resources on the settlement and development of the continent.

Mj. Autumn Quarter; 8:30
Assistant Professor Goode

12. **Economic Geography of Europe.**—Outline same as for Course 10, together with a study of the effects of the natural resources on the distribution and economic development of racial stocks.

Mj. Winter Quarter; 9:30
Assistant Professor Goode

14. **Economic Geography of Tropical Countries.**—Outline similar to that for Course 10. Especial attention will be given to South America, the West Indies, and the Philippines. The course will also include a consideration of the results likely to be achieved by the introduction of

scientific methods of sanitation and industry, from countries in temperate latitudes.

Mj. Winter Quarter; 11:00
ASSISTANT PROFESSOR GOODE

16. **The Geographic Problems of the Orient.** — The significance of the location of the region with reference to the *Hinterland* and to the ocean; the physiography of the realm; the natural resources; racial characteristics; the reasons underlying western interest and aggression.

This course is developed mainly with reference to China and Japan.

Mj. Spring Quarter: 11:00
ASSISTANT PROFESSOR GOODE

20. **American History and its Geographic Conditions.** —This course will be based on Dr. Semple's book of the same title, and will be supplemented by lectures.

M. First Term
DR. SEMPLE

30, 31, 32. **Research Course.** — Advanced work on selected topics will be arranged with individual students prepared to undertake semi-independent work.

Mj or DMj. Each Quarter
PROFESSOR SALISBURY AND
ASSISTANT PROFESSOR GOODE

For courses in **Physical Geography**, see Department of Geology.
For courses in **Commercial Geography**, see Department of Political Economy.
For courses in **Zoögeography**, see Department of Zoölogy.
For courses in **Geographic Botany**, see Department of Botany.
For **normal** courses for Grade Teachers, see College of Education.

XXII. THE DEPARTMENT OF ZOÖLOGY

OFFICERS OF INSTRUCTION

CHARLES OTIS WHITMAN, PH.D., LL.D., *Professor and Head of the Department of Zoölogy; Curator of the Zoölogical Museum.*
FRANK RATTRAY LILLIE, PH.D., *Associate Professor of Embryology; Assistant Curator of the Zoölogical Museum.*
CHARLES MANNING CHILD, PH.D., *Assistant Professor of Zoölogy.*
WILLIAM LAWRENCE TOWER, S.B., *Instructor in Zoölogy.*
REUBEN MYRON STRONG, PH.D., *Associate in Zoölogy.*

SAMUEL WENDELL WILLISTON, M.D., PH.D., *Professor of Paleontology; Lecturer on Evolution of Vertebrates* (1906–7).
VICTOR ERNEST SHELFORD, S.B., *Laboratory Assistant in Zoölogy.*
ROBERT WILHELM HEGNER., S.M., *Laboratory Assistant in Zoölogy.*
JOHN THOMAS PATTERSON, S.B, *Laboratory Assistant in Zoölogy.*

FELLOWS, 1905-6

MARY PUTNAM BLOUNT, S.B. CHARLES ALBERT SHULL, S.B.
THOMAS CALDERWOOD STEPHENS, A.B.

INTRODUCTORY

The courses in Zoölogy aim to meet the needs of a general education, and at the same time to give a thorough preparation for a scientific career. The leading purpose of such courses is to make clear the subject-matter of the science, its principal subdivisions, its scope, methods, and history, and its relations to other sciences. For advanced work in Zoölogy students must early acquire a reading knowledge of German and French, as a knowledge of these languages is assumed. Besides the cognate biological sciences a good working knowledge of Physics and Chemistry is necessary.

The courses may be thus classified:

I. *Introductory.*—Courses 1, 2, and 3 (see College Circular) are designed for beginners. Course 3 is introductory Field Work, adapted to the needs of teachers.

II. *Field Work and Life-Histories.*—Courses 3, 13, and 14, while accompanied with lectures and laboratory exercises, are devoted primarily to the study of *living* animals, habits, instincts, and modes of life.

III. *Comparative Anatomy.*—Courses 5 and 6, dealing with invertebrates, and 10 (see College Circular) 11, and 12, with vertebrates, are intended to meet the needs of students who are to specialize in Zoölogy Paleontology, Anatomy, or Physiology.

IV. *Cytology* is fundamental for every line of advanced work in Zoölogy. Course 16 deals with methods and principles, and Course 18 with the developmental side of the subject.

V. *Embryology* is a central branch in Zoölogy — necessary as a preparation for Paleontology and for Evolutional studies in general. Courses 18, 19, and 20 serve as an introduction, and prepare the way for research in courses 40 to 45.

VI. *Evolution.*—Courses 30, 31, 32, and 33 are intended to serve as an introduction to the study of problems in evolution.

VII. *Research.*—Courses 40 to 45 are intended for students and Fellows who are beginning, or who are already advanced in, original work.

VIII. *The Seminar.*—The Seminar (49, 50, 51) deals with problems and topics of general interest, especially to research students. It is open to all students in the Department.

COURSES OF INSTRUCTION

10. **Comparative Anatomy and Zoölogy of the Vertebrates.**—A laboratory study of types, with dissections, followed by lectures with demonstrations of the comparative anatomy of organs, classification, range of distribution, and evolution of the vertebrates, living and extinct, fishes, and amphibians.

Mj. Autumn Quarter; Mon.–Fri., 3:00–5:00
PROFESSOR WILLISTON

Prerequisite: *Course 2 or equivalent.*

11. **Comparative Anatomy and Zoölogy of the Vertebrates.**— Continuation of Course 10 (Reptiles, Birds).

Mj. Winter Quarter; Mon.–Fri., 3:00–5:00
PROFESSOR WILLISTON

12. **Comparative Anatomy and Zoölogy of the Vertebrates.**—Continuation of Course 11; (Mammals)

Mj. Spring Quarter; Mon.–Fr., 3:00–5:00
PROFESSOR WILLISTON

13. **Field Zoölogy** (Advanced Course).—Study of the fauna of the region about Chicago, with special reference to the relations between animals and their environment. Each student is expected to devote a considerable portion of his time to the study of some special problem connected with the work of the course, and to present the results of his work in the form of a thesis at the end of the course.

Mj or DMj. Autumn Quarter

Lecture: Fri., 2:00.
ASSISTANT PROFESSOR CHILD

DM. Second Term; Summer Quarter

Lectures: Mon. and Fri., 1:30.

Laboratory or field work: Afternoons and Saturday morning. MR. SHELFORD

16. **Cytology.**—Morphology and physiology of the cell; cell-division; cytological theories; the cell and the organism; theory and practice of fixation and staining. The lectures will be supplemented by collateral reading and discussions.

Mj or DMj. Spring Quarter

Lectures: Three times a week; hours to be arranged with class.

Laboratory: Afternoons; 8 hrs. a week.
ASSISTANT PROFESSOR CHILD

[To be given in 1907]

17. **Regeneration.**—The lectures will deal with the principal facts and problems of regeneration and of form-regulation in general, and will be supplemented by collateral reading and discussions. In the laboratory typical cases of regeneration will be studied. Mj or DMj. Spring Quarter

Lectures: Three times a week; hours to be arranged with class.

Laboratory: Afternoons; 8 hrs. a week.
ASSISTANT PROFESSOR CHILD

[To be given in 1908]

NOTE.—Courses 16 and 17 will be given in alternate years.

18. **Physiology of Development.**—The lectures will deal with general and experimental embryology, and with the mechanics of embryonic development, including: the history of the germ-cells; fertilization; the rôle of cell-division in development; intra-cellular differentiation; correlative differentiation of organs and theories of heredity. The laboratory work will be on the early development of selected types of Invertebrates.

Mj or DMj. Autumn Quarter

Lectures: Mon., Wed., Fri., 8:30.

Laboratory: 6 or 16 hours a week.

By special permission the lectures alone may be taken as ½Mj.

Associate Professor Lillie

Prerequisite; *Courses 2 and 19 or 20; Course 16 is desirable.*

19. **Vertebrate Embryology.**—Fishes, amphibia, and reptilia. Lectures, demonstrations, and laboratory work. Mj or DMj. Winter Quarter

Associate Professor Lillie

Lectures: Mon., Wed., Fri., 8:30.

Laboratory: 6 or 16 hours a week.

20. **Vertebrate Embryology.**—Birds and mammals. Lectures, demonstrations, and laboratory work.

Mj or DMj. Spring Quarter

Lectures: Mon., Wed., Fri., 8:30.

Laboratory:

Sec. *a:* Mon. and Tues., 2:00–5:00, and Wed., 11:00–1:00.

Sec. *b:* Wed. 11:00–1:00, and Thurs. and Fri., 2:00–5:00.

Associate Professor Lillie and Mr. Tower

Prerequisite: *Course 2, and Anatomy 10, 11, and 12, or their equivalents.*

21. **Embryology.**—Lectures, demonstrations, and laboratory work. Mj. Summer Quarter

Lectures: Mon.–Fri., 8:00.

Laboratory: 12 hours; mornings.

Mr. Riddle

29. **Marine Biology** at the Marine Biological Laboratory at Wood's Holl, Mass. Credit is given at the University of Chicago for courses taken at this laboratory. DMj. Summer Quarter

Professor Whitman and
Associate Professor Lillie

30. **Animal Evolution.**—A course of lectures dealing with the history of the idea of evolution, the rise of modern ideas (Buffon, St. Hilaire, Lamarck); Darwinian period, current theories of evolution. Reading reports and theses required.

Prerequisite: *Courses 2, 18, and 20, or their equivalent.* Mj or DMj. Autumn Quarter

Lecture: Mon., Wed., Fri., 9:30.

Mr. Tower

Graduate Courses

31. **Animal Evolution** (continued).—The facts and theories of variation and heredity will be considered with especial reference to the parts played by these phenomena in organic evolution. Lectures, demonstrations, and study of special topics. Mj or DMj. Winter Quarter

Lectures: Mon., Wed., Fri., 9:30.

Prerequisite: *as in Course 30.*

Mr. Tower

32. **Animal Evolution** (continued)—Lectures and demonstrations dealing with the control of morphogenic processes; the effects of environmental factors upon organisms; the reactions of lower organisms to stimuli; the origin of new characters, races, and species.

Mj or DMj. Spring Quarter

Lectures: Mon., Wed., Fri., 9:30.

Prerequisite: *as in Course 30.*

Mr. Tower

[To be given in 1907]

33. **Animal Coloration.**—Lectures, demonstrations, and laboratory work. With special reference to the color phenomena of arthropods and the lower vertebrates.

Mj or DMj. Spring Quarter

Lectures: Mon., Wed., Fri., 9:30

Laboratory as arranged.

Mr. Tower

Note.—Courses 32 and 33 will be given in alternate years.

Note.—By special permission the lectures may be taken as ½ Major in Courses 30, 31, and 32.

40. **Zoölogical Problems.**—At the Marine Biological Laboratory, Wood's Holl, Mass.

2 or 3Mj. Summer Quarter

Professor Whitman and
Associate Professor Lillie

Prerequisites: Such of the elementary courses as are essential to the special topic undertaken.

41. **Zoölogical Problems.**

DMj. Autumn Quarter

Lectures: 1 hour a week.

Laboratory: 3 hours daily.

Professor Whitman,
Associate Professor Lillie,
Assistant Professor Child, and Mr. Tower

Prerequisite: *See Course 40.*

(Laboratory fee, $2.50)

42. **Zoölogical Problems**—(continued).
DMj. Winter Quarter
Lectures: 1 hour a week.
Laboratory: 3 hours daily.
PROFESSOR WHITMAN,
ASSOCIATE PROFESSOR LILLIE,
ASSISTANT PROFESSOR CHILD, AND MR. TOWER
Prerequisite: *See Course 40.*
(Laboratory fee, $2.50)

43. **Zoölogical Problems**—(continued).
DMj. Spring Quarter
PROFESSOR WHITMAN,
ASSOCIATE PROFESSORS LILLIE
AND CHILD, AND MR. TOWER
Prerequisite: *See Course 40.*
(Laboratory fee, $2.50)

45. **Zoölogical Problems.**
DMj. Summer Quarter
PROFESSOR WHITMAN,
ASSISTANT PROFESSOR CHILD, AND MR. TOWER
Prerequisite: *See Course 40.*
(Laboratory fee, $2.50)

49, 50, 51. **Seminar: General Biological Topics.**—Two hours weekly. Autumn and Winter Quarters
PROFESSOR WHITMAN,
ASSOCIATE PROFESSOR LILLIE,
ASSISTANT PROFESSOR CHILD, AND MR. TOWER

XXIII. THE DEPARTMENT OF ANATOMY

OFFICERS OF INSTRUCTION

————————————, *Professor of Anatomy and Head of the Department of Anatomy*
ROBERT RUSSELL BENSLEY, A.B., M.B., *Associate Professor of Anatomy.*
PRESTON KYES, A.M., M.D., *Assistant Professor of Anatomy.*
JOHN GORDON WILSON, A.M., M.B., *Instructor in Anatomy.*
GEORGE ELMER SHAMBAUGH, M.D., *Instructor in Anatomy of the Ear, Nose, and Throat.*
BASIL COLEMAN HYATT HARVEY, A.B., M.B., *Instructor in Anatomy.*
DANIEL GRAISBERRY REVELL, A.B., M.D., *Instructor in Anatomy.*
————————————, *Instructor in Anatomy.*
EDWIN GILBERT KIRK, S.B., *Assistant in Anatomy.*
EMIL GOETTSCH, S.B., *Assistant in Anatomy.*

FELLOWS, 1905-6

EMIL GOETTSCH, S.B. JOHN SUNDWALL, PH.B.

INTRODUCTORY

The Hull Laboratory of Anatomy of the University of Chicago has been especially fitted out for graduate work, including advanced courses in Human Anatomy and Embryology, as well as original research in these subjects. Opportunities are afforded for Graduate students who wish to pass on to the higher degrees of A.M., S.M., or Ph.D. A certain number of physicians who wish to study in particular anatomical fields, preparatory to clinical specialization, can be accommodated.

COURSES OF INSTRUCTION

PRIMARILY FOR THE SENIOR COLLEGES.

1, 2, and 3. **Human Anatomy.**—The course in Human Anatomy consists of four Majors of work, distributed over three Quarters. The subdivision of the work is as follows: Dissection of the Arm = 1 Mj; Dissection of the Head, Neck, and Thorax = 1½Mj.; Dissection of the Leg and Abdomen = 1½Mj. Assignments to parts are made by the instructor in charge. The work consists of lectures and laboratory work. In the laboratory the student makes a complete dissection of the part assigned to him, using atlases as guides. The laboratories are open daily from 8:30 A. M. to 5:00 P. M. (Saturdays until 1:00 P. M.) Instructors will be in attendance during scheduled hours. Not more

than 1½Mj. may be taken in one Quarter. 4 Mjs. Autumn, Winter, and Spring Quarters.

Autumn Quarter

Lectures: Wed. and Thurs., 9:30–10:30.
Laboratory: Mon., Tues., and Wed., 2:00–5:00.
Thurs., 2:00–4:30.

Winter Quarter

Lectures: Mon. and Tues., 9:30–10:30.
Laboratory:
Juniors: Mon. and Tues., 11:00–1:00.
Thurs. and Fri., 2:00–5;00.
Seniors:
Sec. A: Mon., Tues., Wed., 11:00–1:00.
Thurs., 2:00–5:00.
Fri., 2:00–4:30.
Sec. B: Mon., Tues., Wed., 11:00–1:00.
Thurs. and Fri., 9:30–12:00.

Spring Quarter

Laboratory: Mon., Tues., Wed., Thurs., Fri., 2:00–5:00. Associate Professor Bensley, Drs. Wilson Harvey and others

(Laboratory fee, $5.00 per Major.)

6. **Human Osteology.**—A systematic study of the human skeleton will be undertaken. The bones of the human body will be drawn, or modeled in clay, in the laboratory. The structure of the composite bones will be considered from the comparative and embryological standpoints.

½Mj. Autumn Quarter

Lecture: Tues., 8:30.
Laboratory: Tues., 9:30–1:00.

Dr. Harvey and Mr. Kirk

(Laboratory fee, $1.25)

6A. **Human Osteology.**—Equivalent to Course 6.

M. First Term, Summer Quarter

Lectures: Thurs. and Fri., 8:00.
Laboratory: Thurs. and Fri., 9:00–12:30.

Dr. Revell

(Laboratory fee, $1.25)

10. **Splanchnology, Histology, and Cytology.**—A brief course on the structure of the cell and elementary tissues will be followed by a study of the structure of the various viscera.

Mj. Autumn Quarter

Lectures: Mon., Fri., 9:30.
Laboratory: Mon., Fri., 10:30–1:00; Thurs., 11:00–1:00.

Dr. Revell, and others

(Laboratory fee, $2.50)

. **Course 10** (continued).

M. First Term, Winter Quarter

Lectures: Wed. and Fri., 9:30.
Laboratory: Thurs. and Fri., 10:30–1:00; Wed., 11:00–1:00.

Mr. Kirk

Prerequisite: *Course 10 or its equivalent.*

(Laboratory fee, $1.25)

11A. Equivalent to Courses 10 and 11.

1½Mj. Summer Quarter

Lectures: Mon., Tues., Wed., 8:00.
Laboratory: Mon., Tues., Wed., 9:00–12:30.

Dr. Revell and Mr. Kirk

(Laboratory fee, $3.75.)

13. **Splanchnology, Histology, and Cytology** (Advanced).—In this course the student will undertake a thorough study of the structure of the important organs. A knowledge of the normal appearance and texture of the organs will be gained by the dissection of fresh specimens, the dissecting microscope being used to supplement the information gained by ordinary methods of dissection. Finally the compound microscope will be employed in the study of prepared sections. 1Mj. Winter Quarter

Lectures: Wed. and Fri., 9:30.
Laboratory: Thurs. and Fri,, 10:30–1:00.
Wed., 11:00–1:00.

Dr. Revell, and others

(Laboratory fee, $2.50)

15. **Splanchnology.**—The topographical relations of the thoracic and abdominal viscera will be studied in transverse sections of the human subject. The knowledge thus gained will be supplemented by a study of the entire organs preserved in their natural shapes by formalin injections. The vessels, ducts and natural cavities of organs will be studied by the various methods of injection, maceration and corrosion. Finally the development of the form and relations of the organs will be studied by dissection of the fœtus. ½Mj. Autumn Quarter

Associate Professor Bensley

(Laboratory fee, $1.25)

16. **Splanchnology.**—(Course 15 continued.)

½Mj. Winter Quarter

Associate Professor Bensley

(Laboratory fee, $1.25)

17. **Neurology.**—Elementary histology and microscopic anatomy of the nervous system and sense organs. (See Department XXV, Courses 33A, etc.)

18. **Vertebrate Embryology.**—Lectures, demonstrations and laboratory work. (See Department XXII, Course 20 and 21.)

PRIMARILY FOR THE GRADUATE SCHOOL

20. **Anatomy of the Ear, Nose, and Throat.**—Special anatomy for practicing physicians and advanced students. This course will consist of laboratory work, lectures, and demonstrations of anatomical preparations.

DM. First Term, Summer Quarter

Lectures and Laboratory: Mon.-Thurs., 1:30–4:30.

DR. SHAMBAUGH

(Laboratory fee, $2.50)

21. **Anatomy of the Eye.**—Special anatomy for practicing physicians and advanced students.

DM. First Term, Summer Quarter

DR. REVELL

(Laboratory fee, $2.50)

22. **Anatomy of the Abdominal and Pelvic Viscera and Pelvic Floor.**—Special anatomy for practicing physicians and advanced students. Suited to those purposing to pay especial attention to gynecology. Mj. Spring Quarter

DR. WILSON

(Laboratory fee, $5.00)

23. **Anatomy of the Pharynx and Larynx.**—Special course for practicing physicians and advanced students, to consist of lectures and laboratory work on the development, gross and microscopic anatomy of these organs. Special attention will be given to the nervous mechanism and its influence on the function.

DM. First Term, Summer Quarter

Lectures and Laboratory work: Mon., Tues., Wed., Thurs., 2:00–5:00.

DR. WILSON

(Laboratory fee, $2.50)

[Not to be given in 1906.]

24. **Anatomy of the Lymphatic System.**—A special study will be made by dissection, injection, etc., of the distribution of the various systems of lymphatic vessels. Mj. Spring Quarter

DR. HARVEY

(Laboratory fee, $2.50)

30. **Physiological Histology.**—The Organs of Respiration, Circulation, Absorption, Secretion and Excretion will be studied from the standpoint of the relation of these structures to the functions they perform. The changes in the structure of the cells of the parenchyma of secretory and excretory organs as results of section and stimulation of their nerves of supply, of the action of drugs, and of normal physiological activity, will be studied. Especial attention will be paid to cellular microchemistry. Mj. Spring Quarter

Lectures: Mon. and Fri., 2:00–3:00.

Laboratory: Mon. and Fri., 3:00–5:00; Wed., 2:00–5:00. ASSOCIATE PROFESSOR BENSLEY AND DR. REVELL

Prerequisites: *Courses 10 and 13 or their equivalents and a reading knowledge of French and German.*

(Laboratory fee, $2.50)

32. **Histogenesis.**—The changes taking place in the elementary tissues will be followed from the blastogenic period to adult life. Certain tissues will be taken as types of the general problems of development and will be studied and discussed from this point of view.

M. Second Term, Summer Quarter

Lectures and Laboratory.

DR. REVELL

(Laboratory fee, $2.50)

33. **Organogenesis.**—Structural changes in certain organs will be followed in the development from the embryonic to the adult form.

M. Second Term, Summer Quarter

Lectures and Laboratory: Mon. and Wed., 8:30–12:00.

DR. REVELL

Prerequisite for Courses 32 and 33: *A knowledge of the main facts of Embryology, Splanchnology, and Histology.*

(Laboratory fee, $1.25)

34. **Advanced Histology and Cytology.**—The solution of various problems in connection with tissues and cells will be undertaken. Especial attention will be paid to experimental methods.

Mj. Spring Quarter

DR. REVELL

Prerequisite: *Courses 10 and 11.*

(Laboratory fee, $2.50)

35. **Mammalian Osteology.**—The skeletal structures of a number of representative mammals will be studied.

1Mj. Spring Quarter

DR. HARVEY

(Laboratory fee, $2.50)

40. **Advanced Work.**—Opportunities are offered for advanced work in all branches of anatomy.

1 to 3Mj

ASSOCIATE PROFESSOR BENSLEY,
DRS. WILSON AND REVELL

(Laboratory fee, $2.50 per Mj.)

1. **Research Work.**—The laboratory is equipped for the original investigation of anatomical problems. Suitably trained and endowed students or physicians who have the time to do such work, will be encouraged to undertake it.
2 to 4Mj
ASSOCIATE PROFESSOR BENSLEY

42 **Seminar.**—A limited number of students can, by special arrangement, be admitted to a seminar, in which subjects of current interest in Gross or Microscopic Anatomy will be discussed.
12 to Mj. Autumn and Winter Quarters, Fri., 4:00.
ASSOCIATE PROFESSOR BENSLEY

XXIV. THE DEPARTMENT OF PHYSIOLOGY

(Including Physiological Chemistry and Pharmacology)

OFFICERS OF INSTRUCTION

GEORGE NEIL STEWART, D.Sc., M.D., *Professor and Head of the Department of Physiology.*
ALBERT PRESCOTT MATHEWS, PH.D., *Professor of Physiological Chemistry.*
DAVID JUDSON LINGLE, PH.D., *Assistant Professor of Physiology.*
ANTON JULIUS CARLSON, PH.D., *Assistant Professor of Comparative Physiology.*
CHARLES CLAUDE GUTHRIE, M.D., *Instructor in Physiology.*
SAMUEL A. MATTHEWS, M.D., *Associate in Pharmacology.*
ALBERT WOELFEL, M.D., *Associate in Physiology.*
HUGH McGUIGAN, S.B., *Assistant in Physiological Chemistry.*
THOMAS MATHESON WILSON, S.M., *Assistant in Physiology.*
WILLIAM IRVING, *Mechanical Assistant.*

FELLOWS, 1905-6

RUSH LESLIE BURNS, S.B.
FRANK HENRY PIKE, A.B.

COURSES OF INSTRUCTION

Physiology of Blood, Circulation, and Respiration.
Mj. Spring Quarter
Lectures: Two a week.
PROFESSOR STEWART
Recitation and conference: One hour a week.
ASSISTANT PROFESSORS LINGLE AND CARLSON AND DR. GUTHRIE
Laboratory: 6 hrs. a week.
ASSISTANT PROFESSOR CARLSON, DR. WOELFEL, AND MR. WILSON
Prerequisite: *Physiological Chemistry.*
(Laboratory fee, $2.50)

13. **Physiology of Digestion, Metabolism, Absorption, Secretion, Muscles, and Heat.**
1½Mj. Autumn Quarter
Lectures: Three a week.
PROFESSOR STEWART
Recitation and conference: Two hours a week.
ASSISTANT PROFESSORS LINGLE AND CARLSON AND DRS. GUTHRIE AND WOELFEL
Laboratory: 7 hours a week.
ASSISTANT PROFESSOR CARLSON, DRS. GUTHRIE AND WOELFEL, AND MR. WILSON
Prerequisite: *Physiology 12.*
(Laboratory fee, $2.50)

*14. **Physiology of the Nervous System and the Senses.** Mj. Winter Quarter
Lectures: Two a week.
ASSISTANT PROFESSOR CARLSON
Recitations and Conference: Once a week.
ASSISTANT PROFESSOR CARLSON AND DRS. GUTHRIE AND WOELFEL
Laboratory: 6 hrs. a week.
ASSISTANT PROFESSOR CARLSON, DRS. GUTHRIE AND WOELFEL, AND MR. WILSON
(Laboratory fee, $2.50)

15. **Special Physiology of Mammals.**—Including the repetition of experiments not given in the general courses. Saturdays, 8:00–12:30
½Mj. Summer Quarter
DR. GUTHRIE
Repeated Autumn Quarter.
Prerequisite: *Physiology 12 or equivalent.*
(Laboratory fee, $1.25)

16. **General and Comparative Physiology.**—The phenomena of irritability; the effects of external conditions on protoplasm.
Mj. Spring Quarter
DR. CARLSON

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*One of the Courses 12, 13, or 14 will be repeated in the Summer Quarter by Professor Stewart and Dr. Guthrie. The choice will depend upon the requirements of the majority of the applicants.

Prerequisite: *A good knowledge of Chemistry and Biology.*
(Laboratory fee, $2.50)

20. **Physiological Chemistry.**—The chemistry of protoplasm; of the foods; of digestion, metabolism, and the excretions. 1½Mj. Winter Quarter
Lectures: Three a week.
PROFESSOR MATHEWS
Recitations: Two a week.
Laboratory: 7 hrs. a week.
PROFESSOR MATHEWS,
DR. S. A. MATTHEWS, AND MR. MCGUIGAN
Prerequisite: *General Chemistry and Qualitative Analysis; elementary Organic Chemistry. Quantitative Analysis is strongly recommended.*
(Laboratory fee, $3.75)

21. **Pharmacology.** 1½Mj. Spring Quarter
Lectures: Three a week.
PROFESSOR MATHEWS
Recitations: Two a week.
Laboratory: 7 hrs. a week.
PROFESSOR MATHEWS,
DR. S. A. MATTHEWS, AND MR. MCGUIGAN
Given Summer Quarter, 1906, as 1½Mj
DR. S. A. MATTHEWS
(Laboratory fee, $3.75)

PRIMARILY GRADUATE COURSES

30. **The Cells and Liquids of the Body in Their Physico-Chemical Relations.**
Mj. Autumn Quarter
Repeated in the Summer Quarter
PROFESSOR STEWART AND MR. WILSON
(Laboratory fee, $2.50)

31. **Special Physiology of the Circulation.**
Mj. Winter Quarter
PROFESSOR STEWART AND DR. GUTHRIE
(Laboratory fee, $2.50)

32. **Animal Electricity.** Mj. Spring Quarter
PROFESSOR STEWART
(Laboratory fee, $2.50)

36. **The Action of Drugs on Mammals.**—An experimental course to a small number of students only. Mj. Autumn Quarter
DR. S. A. MATTHEWS

38. **The Chemistry of Protoplasm** (Advanced Course). The course will include the isolation of the nucleins, proteids, and other important constituents of the cell. Mj. Autumn Quarter
PROFESSOR MATHEWS

41. **Seminar.**—At times to be announced.
PROFESSOR STEWART

42. **Research Work in Physiological Chemistry.**
Mj or DMj. Throughout the year
PROFESSOR MATHEWS
AND MR. MCGUIGAN

43. **Research Work in Pharmacology.**
Mj or DMj. Throughout the year
PROFESSOR MATHEWS AND
DR. S. A. MATTHEWS

44. **Research Work in Physiology.**
Mj or DMj. Throughout the year
PROFESSOR STEWART, AND OTHERS

51. **General and Comparative Physiology** at the Marine Laboratory, at Wood's Holl, Mass.— Credit is given by the University of Chicago for courses taken at this Laboratory.
DMj. Summer Quarter
PROFESSOR MATHEWS,
ASSISTANT PROFESSOR CARLSON, AND OTHERS

XXV. THE DEPARTMENT OF NEUROLOGY

OFFICERS OF INSTRUCTION

HENRY HERBERT DONALDSON, PH.D., *Professor and Head of the Department of Neurology.*
SHINKISHI HATAI, PH.D., *Assistant in Neurology.*
ELIZABETH HOPKINS DUNN, A.M., M.D., *Research Assistant in Neurology.*
KATASHI TAKAHASHI, *Technical Assistant in Neurology.*

INTRODUCTORY

The courses here offered are intended to furnish an account of the Histology, Microscopic Anatomy, and Architecture of the Nervous System such as will be required by students of Anatomy and those preparing for Medicine or Psychology, and also to give the opportunity both for the investigation of new problems and for a

critical discussion of current work in Neurology. Course 3 forms part of the required work in Histology and Microscopic Anatomy for those taking the first two years' work in Medicine. The Neurological Journal Club — open to Graduate students — meets every Friday afternoon.

For each Major course requiring laboratory work the laboratory fee is $2.50. For Medical students this fee is included in the quarterly tuition fees.

COURSES OF INSTRUCTION

1. The Architecture of the Central Nervous System. Mj. Autumn Quarter
Lectures: Mon. and Tues., 9:30.
Laboratory: Thurs. and Fri., 2:00–4:00.
PROFESSOR DONALDSON AND DR. HATAI
Prerequisite: *Microscopic Anatomy.*
(Laboratory fee, $2.50)

2. The Growth of the Brain and its Physical Characters as Related to Intelligence. Mj. Winter Quarter
Lectures: Mon. and Tues., 9:30.
Laboratory: Thurs. and Fri., 2:00–4:00.
PROFESSOR DONALDSON AND DR. HATAI
Prerequisite: *Microscopic Anatomy.*
(Laboratory fee, $2.50)

3. Gross and Microscopic Anatomy of the Human Central Nervous System and Sense Organs. This is a required course for Medical students. Mj. Spring Quarter
Lectures: Mon. and Tues., 8:30.
Recitation: Wed., 8:30.
Laboratory: Mon., Tues., and Wed., 11:00–1:00.
PROFESSOR DONALDSON, DR. HATAI, AND ASSISTANTS
Prerequisite: *Microscopic Anatomy.*
(Laboratory fee, $2.50)

3A. Gross and Microscopic Anatomy of the Human Central Nervous System and Sense Organs (repeated). See Course 3.
DM. First Term, Summer Quarter
Lectures: Mon.–Thurs., 8:00.
Laboratory: 10 hrs. a week.
DR. HATAI
Prerequisite: *Microscopic Anatomy.*
(Laboratory fee, $2.50)

11. Physical and Chemical Characters of the Nervous System in Relation to Histological Technique. DM. Second Term, Summer Quarter
Lectures: Mon.–Thurs., 8:00.
Laboratory: 10 hrs. a week.
DR. HATAI

11A. Physical and Chemical Characters of the Nervous System in Relation to Histological Technique. ½Mj. Autumn Quarter
Lectures and Laboratory work.
Hours to be arranged.
DR. HATAI

12. Cytology of the Neurone. ½Mj. Winter Quarter
Lectures and Laboratory work.
Hours to be arranged.
DR. HATAI

4, 5, 6, 6A. Seminar.—The purposes of the Seminar are threefold: (*a*) initiation into the methods of research; (*b*) the history of the guiding conceptions in Neurology; (*c*) discussion of such literature as is too technical for presentation at a general Journal Club.
3½Mj. Summer, Autumn, Winter, and Spring Quarters. 2 hrs. a week.
Autumn, Winter, and Spring Quarters, 3:00–5.00
PROFESSOR DONALDSON
Admission to the Seminar is granted only after consultation with the Head of the Department.

7, 8, 9, 10. Research Courses: *The Study of Neurological Problems.*
4Mj. Autumn, Winter, Spring, and First Term of Summer Quarters.
PROFESSOR DONALDSON
Second Term. Summer Quarter
DR. HATAI
Prerequisite: *A knowledge of the main facts of Neurology.*

XXVI. THE DEPARTMENT OF PALEONTOLOGY

OFFICERS OF INSTRUCTION

SAMUEL WENDELL WILLISTON, M.D., PH.D., *Professor of Paleontology.*

FELLOWS, 1905-6

ROY LEE MOODIE, A.B.

COURSES OF INSTRUCTION

11, 12, 13. **Special Research in Vertebrate Paleontology.**—Hours arranged to suit individual students.

Mj or DMj. Autumn, Winter, and Spring Quarters PROFESSOR WILLISTON

Prerequisite: *Courses 1, 2, and 3; or 11, 12, and 13 Department of Zoölogy; or equivalents.*

NOTE.—The library at the command of the research student in Vertebrate Paleontology is unexcelled elsewhere in America.

14. **Field-Work.**—One or more students may accompany field expeditions, by special arrangement with the head of the Department.

DMj. Summer Quarter

PROFESSOR WILLISTON, AND ASSISTANT

Prerequisite: *Courses 1, 2, and 3; or Courses 11, 12 and 13 of the Department of Zoölogy; or equivalents.*

For courses treating of the extinct vertebrates from the biological side, see Department of Zoölogy.

XXVII. THE DEPARTMENT OF BOTANY

OFFICERS OF INSTRUCTION

JOHN MERLE COULTER, A.M., PH.D., *Professor and Head of the Department of Botany.*
CHARLES REID BARNES, A.M., PH.D., *Professor of Plant Physiology.*
CHARLES JOSEPH CHAMBERLAIN, A.M., PH.D., *Instructor in Morphology and Cytology.*
HENRY CHANDLER COWLES, PH.D., *Instructor in Ecology.*
FLORENCE MAY LYON, PH.D., *Associate in Morphology.*
HEINRICH HASSELBRING, PH.D., *Assistant in Plant Pathology.*
WILLIAM JESSE GOAD LAND, PH.D., *Assistant in Morphology.*
WILLIAM BURNETT McCALLUM, PH.D., *Assistant in Botany.*
MARY ELEANOR TARRANT, *Assistant in Field Botany* (Summer Quarter, 1906).

FELLOWS, 1905-6

WILLIAM CROCKER, A.B., A.M. JOHN WOODSIDE RITCHIE, A.B.
SHIGEO YAMANOUCHI

INTRODUCTORY

While the Department keeps in view the usefulness of botany in contributing to a liberal education, its method is the same in aiding general culture as in training investigators. Beginning with the fundamentals of biology from the standpoint of botany, the courses gradually differentiate into more and more special lines until finally they become adapted to the needs of the individual investigator. The method of the Department is the careful, individual examination of the facts upon which the body of the science rests.

The Department occupies the Hull Botanical Laboratory. At present there is provision of apparatus books, periodicals, and collections, for work in morphology, cytology, physiology, and ecology. In addition to the facilities belonging to the University, the conveniently situated grounds and greenhouses of Jackson and Washington Parks are always available for material, while the Crerar and Newberry Libraries are easily accessible.

The library contains a good representation of standard and current botanical literature, to which constant additions are being made. Complete files of the more important serials have been secured, and nearly all current botanical journals are received through exchange or purchase. Special care will be taken to secure all necessary literature for research students.

The *Botanical Gazette*, a journal now in its forty-first volume, is the property of the University, and while in no sense an organ of the Department, it is the natural channel for the publication of much of its work.

The Department has also begun a series of *Contributions from the Hull Botanical Laboratory*, eighty-two numbers of which have been published.

The Botanical Club consists of the instructors and advanced students of the Department, who meet each week to review important current literature, to present the results of their own research, and to hear visiting botanists. The club is made an important means of supplementary training for the special student of botany.

COURSES OF INSTRUCTION

The laboratory fees named include the use of microscope and reagents and plant material. In addition a breakage ticket is usually needed.

In courses demanding the use of apparatus a laboratory fee of $2.50 is charged for each Major.

The courses fall naturally into groups under the following classification:

I. *General and Introductory.*—Courses 1, 2, and 3 are intended to give a general preparation for biological work in the field of botany. Each course is complete in itself, but Course 1 is a necessary introduction to either 2 or 3, and is the course to be selected by the general student who can give but a single Quarter to the subject. For this reason Course 1 is given each Quarter except the Winter. Course 5 is intended to give some knowledge of anatomy, and Course 6 to correct the tendency of students of morphology to know only laboratory material, and to be ignorant of live plants and their habitats. Courses 1, 2, 3, 5, and 6 are especially recommended to teachers in the public schools.

Courses 7, 8, and 9 constitute a series intended to give a thorough account of the principal groups of plants, their morphology, and a somewhat detailed outline of their classification. These courses may be taken in any sequence, although the subject develops most naturally if they are taken in the order of their numbering. They are required of all students who intend to do advanced work in the department, and are adapted to all who desire a thorough elementary knowledge of plants. Unless all these are taken Course 1, or its equivalent, is prerequisite for any of them.

Course 4 is required of all students who purpose entering any of the courses in special morphology.

II. *Special Morphology.*—The courses enumerated under this head (10–15) expand the work of Courses 7, 8 and 9, and consider in detail the different groups of plants there studied. They are intended to furnish the training necessary for independent research in morphology. Courses 10, 12, and 13 make up a year's work, offered in alternate years with Courses 11, 14, and 15. Courses 18 and 19 are for research students and demand familiarity with German and French.

III. *Physiology.*—Courses 20–22 include work in the fundamental principles of Physiology and constitute a continuous course (though they may be elected separately and in any order) prerequisite to research work in Physiology. The laboratory observations in these courses sometimes require work at irregular and unusual hours which those electing them should be willing to give. Students should be able to read German readily, and must be acquainted with the fundamental principles of physics and inorganic chemistry. Physics 1, 2, 3, and Chemistry 1, 2, 3, 4, are highly desirable antecedents, and may in future be made prerequisites.

IV. *Ecology.*—Courses 30, 32, and 34 constitute a series, but are independent of one another, and hence may be elected separately. The ability to read German is a decided advantage in all the courses in Ecology.

V. *Bacteriology.*—Students specializing in Botany are advised to take at least two Majors of Bacteriology (Courses 1B and 4).

For elementary courses see *The Circular of Information: The Colleges.*

10. Special Morphology of Algae.*—Critical studies of typical algae, accompanied by lectures upon the morphology and relationships of the group. Mj or DMj. Autumn Quarter, 1907

Lectures: Mon., Wed., 9:30; conference: Fri., 9:30.

Laboratory: Tues. and Thurs. 8:30–10:30.

Prerequisite: *Courses 4 and 7.*

(Laboratory fee, $2.50)

11. Special Morphology of Fungi.*—Critical studies of fungi form the basis of a course of lectures on morphology, relationships, and origin of the group. Practical acquaintance with methods of artificial culture is an important feature of the course. Mj or DMj. Autumn Quarter

Lectures: Mon., Wed., 9:30; conference, Fri., 9:30.

Laboratory: Tues., Thurs., 8:30–10:30.

Prerequisite: *Courses 4 and 7.*

(Laboratory fee, $2.50)

* Courses 10, 12, 13 are offered in alternate years with Courses 11, 14, 15.

12. **Special Morphology of Bryophytes.*** — Critical studies of typical liverworts and mosses, accompanied by lectures upon their morphology, relationships, and origin.

DMj. Winter Quarter, 1908

Lectures: Mon., Wed., 9:30.

Laboratory: Tues., Thurs., Fri., 8:30-10:30.

PROFESSOR BARNES AND DR. CHAMBERLAIN

Prerequisite: *Courses 4 and 8.*

(Laboratory fee, $2.50)

13. **Special Morphology of Pteridophytes.***— Similar in method and purpose to Course 12, the lectures also discussing the relation of the group to Spermatophytes. DMj. Summer Quarter Spring Quarter, 1908

Lectures: Mon., Wed., 9:30; conference, Fri., 9:30.

Laboratory: Tues., Thurs., Fri., 8:30-10:30.

PROFESSOR COULTER AND DR. CHAMBERLAIN

Prerequisite: *Courses 4 and 8.*

(Laboratory fee, $2.50)

14. **Special Morphology of Gymnosperms.***— Critical studies of the gymnosperm types are made, and a course of lectures discusses the morphology, genetic relationships, and origin of the group, both ancient and modern.

DMj. Winter Quarter

Lectures: Mon., Wed., 9:30; conference, Fri., 9:30.

Laboratory: Tues., Thurs., Fri.,. 8:30-10:30

PROFESSOR COULTER AND DR. CHAMBERLAIN

Prerequisite: *Courses 4 and 9.*

(Laboratory fee, $2.50)

15. **Special Morphology of Angiosperms.*** — A continuation of Course 14, treating monocotyledons and dicotyledons. DMj. Spring Quarter

Lectures: Mon., Wed., 9:00.

Laboratory: Tues., Thurs., Fri., 8:00-10:00.

PROFESSOR COULTER AND DR. CHAMBERLAIN

Prerequisite: *Courses 4 and 9.*

(Laboratory fee, $2.50)

16. **Special Anatomy of the Vascular System.**— A study of the vascular system of plants from the standpoint of phylogeny, being the morphology of the vascular tissues.

Mj. Autumn Quarter

Lectures: Tues., Thurs., 9:30.

Laboratory: Mon., Wed., Fri., 8:30-10:30.

PROFESSOR COULTER AND DR. LAND

Prerequisite: *Courses 5, 7, 8, and 9.*

(Laboratory fee, $2.50)

17. **Cytology.**—This course deals with the structure and life-history of the plant cell. Special attention will be given to the bearing of cytology upon theories of heredity and evolution. Designed for research students.

Mj. Summer and Winter Quarters

Summer Quarter:

Lectures: Mon. and Wed., 10:30.

Laboratory: Tues., Thurs., Fri., 10:30-12:30.

Winter Quarter:

Lectures: Mon. and Wed., 2:00.

Laboratory: Tues., Thurs., Fri., 2:00-4:00.

DR. CHAMBERLAIN

Prerequisite: *Course 4.*

(Laboratory fee, $2.50)

18. **Advanced Morphology.**— Designed for advanced students who wish to prosecute further studies in the morphology of any particular group, without undertaking a definite problem in research. Instructor must be consulted before registering.

PROFESSORS COULTER AND BARNES, AND DR. CHAMBERLAIN

Prerequisite: the course in *Special Morphology* of group chosen.

(Laboratory fee, $2.50)

19. **Research in Morphology.**— Only those students will be admitted to this work whose training in technique and special morphology enables them to be independent. Mj or DMj. Throughout the year.

PROFESSORS COULTER AND BARNES, AND DR. CHAMBERLAIN

(Laboratory fee, $2.50)

20. **Plant Physics.** — This course is designed to acquaint the student with the plant processes which are essentially physical, such as maintenance of bodily form, turgor, absorption, movement of substances in the body, and transpiration. Mj or DMj. Autumn Quarter

Lectures: Mon., Wed., 3:00.

Laboratory: Tues., Thurs., Fri., 2:00-4:00.

PROFESSOR BARNES AND DR. MCCALLUM

Prerequisite: *Course 2*, Desirable antecedents: *Physics 1, 2, 3, 11; Botany 3, 5, 7, 8, 9.*

(Laboratory fee, $2.50)

21 **Plant Chemics.**— A continuation of Course 20, devoted to the study of metabolism, including the manufacture, digestion, and assimilation of foods; respiration; waste products.

Mj or DMj. Winter Quarter

*See footnote on preceding page.

Lectures: Mon., Wed., 3:00.
Laboratory: Tues., Thurs., Fri., 2:00–4:00.
PROFESSOR BARNES AND DR. MCCALLUM
Prerequisite: *Course 2.* Desirable antecedents: *Chemistry 1, 2, 3, 4; Botany 20.*
(Laboratory fee, $2.50)

22. **Growth and Movement.** — A continuation of Courses 20 and 21. The phenomena of growth and movement will be examined with especial reference to the influence of external agents upon them through irritability.
Mj or DMj. Spring Quarter
Lectures: Mon., Wed., 3:00.
Laboratory: Tues., Thurs., Fri., 2:00–4:00.
PROFESSOR BARNES AND DR. MCCALLUM
Prerequisite: *Course 2.* Desirable antecedents: *Courses 20, 21.*
(Laboratory fee, $2.50)

29. **Research in Physiology.**—Requires special training in physiology and the fundamental physics and chemistry. Registration only after consultation.
PROFESSOR BARNES
(Laboratory fee, $2.50)

30. **Ecological Anatomy.** — Plant tissues from the standpoint of origin and function; follows or runs parallel with Course 3.
Mj. Summer Quarter, First Term, Autumn Quarter.
Lectures: Tues., Thurs., 11:00.
Laboratory: Mon., Wed., Fri., 11:00–1:00.
DR. COWLES
Prerequisite: *Courses 1, 2, 3.*
(Laboratory fee, $2.50)

32. **Geographic Botany.** — This course presents regional and world problems, in contrast to the local field problems treated in Courses 3 and 34.
Mj. Winter Quarter
Lecture or Conference daily: 8:30.
DR. COWLES
Prerequisite: *Course 3,* and preferably *Historical Geology.*

34. **Physiographic Ecology.**—Origin, development, and death of the various plant associations, especially such as are found in the United States and Canada. Mj. Spring Quarter
Lectures: Mon. and Fri., 4:00.
Field-work: Wed. afternoon and Sat. forenoon, or all day Sat.
DR. COWLES
Prerequisite: *Botany 3, Physiography,* and preferably *Geographic Geology.*

36. **Field Ecology.**—Designed to supplement the local work in Ecology at the University. The whole time of the student will be required while in the field; the remainder of the term may be devoted to the preparation of a report. M, DM, or 3M, depending upon the quantity and quality of the work accomplished.
Second Term, Summer Quarter
DR. COWLES

38. **Seminar in Ecology.**—This course is intermediate between Courses 30–35 and research work. In general, the Seminar work for each Quarter will run parallel with the Ecological Course (30–34) given at the time.
Mj or DMj
DR. COWLES

39. **Research in Ecology.**—This course requires special training in ecology, and in related lines of study, especially geology and plant physiology.
Mj or DMj
DR. COWLES

40. **Elementary Plant Pathology.**—A study of the life-histories of the commoner forms of parasites together with their physiology and that of the infected plants. Special attention will be given to the relation between parasite and host. Field trips for recognizing and collecting material.
Mj. Autumn Quarter
Lectures: Tues., Thurs., 3:00.
Laboratory: Mon., Wed., Fri., 2:00–4:00.
DR. HASSELBRING
Prerequisite: *Courses 2 and 6 or equivalents.*

XXVIII. THE DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

OFFICERS OF INSTRUCTION

LUDVIG HEKTOEN, M.D., *Professor of Pathology, and Head of the Department of Pathology and Bacteriology.*
EDWIN OAKES JORDAN, Ph.D., *Associate Professor of Bacteriology.*
HARRY GIDEON WELLS, Ph.D., M.D., *Assistant Professor of Pathology.*
HOWARD TAYLOR RICKETTS, A.B., M.D., *Instructor in Pathology.*
BROWN PUSEY, M.D., *Instructor in the Pathology of the Eye.*
NORMAN MacLEOD HARRIS, M.B., *Instructor in Bacteriology.*
THOR ROTHSTEIN, A.B., M.D., *Research Assistant in Neuropathology.*
———— *Assistant in Pathology.*
SAMUEL HENRY AYERS, B.S., *Assistant in Bacteriology.*
MARY HEFFERAN, Ph.D., *Assistant and Curator of the Bacteriological Museum.*
WILFRED HAMILTON MANWARING, B.S., M.D., *Assistant in Pathology* (Summer Quarter, 1906).

FELLOWS, 1905-6

WILFRED HAMILTON MANWARING, S.B., M.D.
BENJAMIN TAYLOR TERRY, A.M., M.D.
PAUL GUSTAV HEINEMANN, S.B. (Bacteriology).
ROBERT LOUIS BENSON, A.B., A.M.

INTRODUCTORY

The courses offered by the Department include such as cover the required work in Pathology and Bacteriology in the curriculum of the first two years in the study of Medicine, as well as advanced courses arranged for those desiring a more extended knowledge of the subjects, and for those wishing to qualify themselves for research.

The Department possesses all necessary equipment for pathological and bacteriological work. Abundant deskroom, with lockers, is provided. There is a good museum for teaching purposes, and an ample special library containing complete files of the important serials. Sufficient material and apparatus for advanced work and special research are provided.

For each Major or Double Minor Course requiring laboratory work the laboratory fee is $2.50.

4. **Advanced Bacteriology.** Mj
Open to a limited number of specially prepared students and graduates in medicine. Lectures on specially selected topics. Repeated each Quarter. Hours to be arranged.
Associate Professor Jordan and Dr. Harris

5. **Public Hygiene.**—The applications of Bacteriology to municipal hygiene. Water supply, food supply, sewage disposal, etc. Mj. Spring Quarter
Associate Professor Jordan

7A. **Principles of Hygiene.**—An elementary laboratory course for high-school teachers. Laboratory work ten hours a week.
M. First Term, Summer Quarter
Dr. Manwaring

7B. **The Nature of Disease.**—A non-technical course covering important facts about disease. Designed especially for public-school teachers. Lectures and some laboratory work.
M. Second Term, Summer Quarter
Dr. Manwaring

Graduate Courses

8. **Pathology of the Eye.**—Special advanced pathology for practicing physicians and advanced students. Hours arranged for each student.
DM. First Term, Summer Quarter
Dr. Pusey
(Laboratory fee, $2.50)

9. **Advanced Pathology.**—Open to a limited number of students who have credit in general pathology. Laboratory work will be given in pathological technique, the study and recording of autopsies, and on special pathological material. Weekly conferences. Hours arranged for each student. Mj Each Quarter
Assistant Professor Wells or Dr. Ricketts
(Laboratory fee, $2.50)

10. **Research in Pathology.**—Open to a limited number of specially qualified students and graduates in medicine. Hours to be arranged for each student. Mj or DMj. Each Quarter
PROFESSOR HEKTOEN, ASSISTANT PROFESSOR WELLS, AND DR. RICKETTS
(Laboratory fee, $2.50)

11. **Research in Bacteriology.**
Mj or DMj. Each Quarter
ASSOCIATE PROFESSOR JORDAN AND DR. HARRIS
(Laboratory fee, $2.50)

12A. **Special Pathology.**—A course of recitations, with demonstrations of anatomical specimens, on the pathological processes of the different viscera. Hours to be arranged.
½Mj. Summer Quarter
ASSISTANT PROFESSOR WELLS
Prerequisite: *General Pathology.*

12B. **Laboratory Course.**—Supplementary to 12A Hours arranged for each student.
½Mj. Summer Quarter
ASSISTANT PROFESSOR WELLS
(Laboratory fee $1.25)

13A. **Laboratory Course in Immunity.**—Immunization of animals. Cytolysis (including hemolysis and bacteriolysis), agglutination, toxins and antitoxins, etc. An introductory course in serum pathology. Hours to be arranged.
½Mj or M. Each Quarter
DR. RICKETTS
Prerequisite: *Bacteriology and Pathology.*
(Laboratory fee, $1.25)

13B. **Lecture Course in Immunity.**—Theories of immunity, the reactions and substances concerned, and the present status of immunity in various infectious diseases. Supplementary to 13A, but may be taken independently. Hours to be arranged. ½Mj or M. Summer Quarter
DR. RICKETTS
Prerequisite: *Bacteriology and Pathology.*

14. **Bacteriology of Autopsies.**—Open to a limited number of students. Study will be made of bacteriological material obtained at autopsies. Conferences weekly. This course is associated with Course 9. Mj. Each Quarter.
ASSISTANT PROFESSOR WELLS AND DR. RICKETTS
(Laboratory fee, $2.50)

15. **Pathology of the Nervous System.**—Special pathology of the nervous system for practicing physicians and advanced students.
M or DM. First Quarter.
DR. ROTHSTEIN

REGISTRATION OF STUDENTS, 1905-6

ABBREVIATIONS.—ACADEMIC RECORD.—In the statement of academic record, *u.*= University; *c.*= College; *s.*= School; *sm.* = Seminary; *hs.*= High School; *a.*= Academy; *inst.*= Institute (or Institution).

PERIOD OF RESIDENCE.—*s*=Resident during Summer Quarter, 1905.—*a*=Resident during Autumn Quarter, 1905.—*w*=Resident during Winter Quarter, 1906.—*sp*=Resident during Spring Quarter, 1906.

†=Graduate students studying abroad.

In the list of subjects following the Academic record the principal subject is placed first. (*fel.*) indicates "fellow" in department.

THE GRADUATE SCHOOLS OF ARTS, LITERATURE, AND SCIENCE

I. DOCTORS OF PHILOSOPHY PURSUING SPECIAL COURSES

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Acree, Solomon Farley, *s*	S.B. (*u. of Texas*) '96; S.M. (*Ibid.*) '97; Ph.D. (*u. of Chicago*) '02. Chemistry, Physics	Baltimore, Md.
Atwood, Wallace Walter, *a*	S B. (*u. of Chicago*) '97; Ph.D. (*Ibid.*) '03. Geology	Chicago
Bacon, Raymond Fauss, *s*	S.B. (*De Pauw u.*) '99; A.M. (*Ibid.*) '00; Ph.D. (*u. of Chicago*) '04. Chemistry, Physics	Indianapolis, Ind.
Bronk, Isabelle, *s*	Ph.B. (*Illinois Wesleyan u.*) '93; Ph.D. (*u. of Chicago*) '00. Romance	Swarthmore, Pa.
Fink, Bruce, *s*	S.M. (*u. of Illinois*) '94; A.M. (*Harvard u.*) '96; Ph.D. (*u. of Minnesota*) '99. Pathology	Grinnell, Ia.
Gray, Charles Henry, *s*	L.B. (*u. of Michigan*) '95; L.M. (*Ibid.*) '96; Ph.D. (*u. of Chicago*) '04. English, German	Chicago
Harris, Mary Belle, *a*	A.B. (*Bucknell u.*) '94; A.M. (*Ibid.*) '95; Ph.D. (*u. of Chicago*) '00. Latin, Greek	Lewisburg, Pa.
Jeffreys, Elizabeth, *s*	Ph.B. (*Oberlin c.*) '95; Ph.D. (*u. of Chicago*) '98. Chemistry	Chicago
Jones, Florence Nightingale, *s*	A.B. (*Oberlin c.*) '83; A.M. (*u. of Michigan*) '91; Ph.D. (*u. of Chicago*) '03. Romance	Chicago
Moncreiff, William Franklin, *s*	A.B. (*u .of Nashville*) '89; A.M. (*Ibid.*) '92; Ph.M. (*u. of Chicago*) '99; Ph.D. (*Ibid.*) '00. Mathematics	Rock Hill, S. C.
Mulfinger, George Abraham, *s*	A.B. (*Northwestern u.*) '85; Ph.D. (*u. of Chicago*) '02. German	Chicago
Noé, Adolph Charles Von, *s a w*	A.B. (*u. of Chicago*) '00; Ph.D. (*Ibid.*) '05. German	Chicago
Owen, William Bishop, *s*	A.B. (*Denison u.*) '87; Ph.D. (*u. of Chicago*) '01. Greek, Latin	Chicago
Robinson, David Moore, *s*	A.B. (*u. of Chicago*) '98; Ph.D. (*Ibid.*) '04. Greek, Latin	Chicago
Wildman, Murray Shipley, *s*	Ph.B. (*Earlham c.*) '93; Ph.D. (*u. of Chicago*) '04. Political Economy	Fayette, Mo.
Wyczolkowska, Anna, *w*	Ph.D. (*u. of Zurich*) '93. Psychology	Chicago
Yamaguchi, Minocuke, *a w*	A.B. (*Lombard u.*) '97; A.M. (*Yale u.*) '00; Ph.D. (*Taylor u.*) '00. Anatomy, Chemistry	Tokyo, Japan

MEN—12 WOMEN—5 TOTAL—17

II. STUDENTS ADMITTED TO CANDIDACY FOR HIGHER DEGREES

NOTE.—Students are admitted to candidacy for higher degrees by vote of the faculty on approval of the thesis subject and fulfilment of other conditions under the regulations.

Where the name of the student appears in the list with the degree of Ph.D. indicated, it will be understood that the degree was conferred during the Academic year.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Abbott, Edith, *s*	A.B. (*u. of Nebraska*) '01; Ph.D. (*u. of Chicago*) '05. Political Economy, Political Science	Grand Island, Neb.
Anderson, Anna Cornelia, *s a w*	A.B. (*u. of Chicago*) '01; A.M. (*Ibid.*) '02. English, Physics, Greek	Chicago
Ashman. George Cromwell, *s*	S.B. (*Wabash c.*) '95; S.M. (*u. of Chicago*) '05. Chemistry	Peoria
Axtell, Harold Lucius, *s a w*	A.B. (*Kalamazoo c.*) '97; A.B. (*u. of Chicago*) '98; A.M. (*Ibid.*) '00. Latin, Greek	Topeka, Kan.
Bass, Willard Streeter, *s*	A.B. (*Bowdoin c.*) '96; A.M. (*Harvard u.*) '99. Mathematics	Chicago
Barnard, Edith Ethel, *s a w*	S.B. (*u. of Chicago*) '03; S.M. (*Ibid.*) '05. Chemistry	Chicago
Bates, William Hunt, *s*	A.B. (*Vanderbilt u.*) '94; A.M. (*u. of Chicago*) '02. Mathematics	Lafayette, Ind.
Benedict, Laura Estelle Watson, *s a w*	A.B. (*u. of Chicago*) '00; A.M. (*Ibid.*) '04. Anthropology, Sociology	Chicago
Blunt, Katharine, *s a w*	A.B. (*Vassar c.*) '98. Chemistry	Rock Island
Bondurant, Bernard Camillus, *s*	A.B. (*Hampden-Sidney c.*) '91; A.M. (*West Virginia u.*) '00; Ph.D. (*u. of Chicago*) '05. Latin, Greek	Rice Depot, Va.
Börger, Robert Lacey, *s*	A.B. (*Florida Agricultural c.*) '93; A.M. (*u. of Chicago*) '05. Mathematics	Lake City, Fla.
Bradley, William Joseph, *s a w*	A.B. (*u. of Chicago*) '05; A.M. (*Ibid.*) '05. Philosophy	Macon, Ga.
Breslich, Ernest Rudolph, *s*	A.B. (*German Wallce c.*) '98; A.M. (*u. of Chicago*) '00. Mathematics, Astronomy	Chicago
Brookfield, Mary Palmierre, *s w*	S.B. (*u. of Chicago*) '02. English	Niagara Falls, Can.
Brown, Frank Clyde, *s*	A.B. (*u. of Nashville*) '93; A.M. (*u. of Chicago*) '02. English	Oxford, Ga.
Brown, Peter Franklin, *s*	A.B. (*Emory c.*) '90; A.M. (*Ibid.*) '95. English	Savannah, Ga.
Brownlee, Roy Hutchinson, *s a w*	A.B. (*Monmouth c.*) '98. Chemistry, Physics	Chicago
Bunts, Alfred Jackson, *s*	S.B. (*Milligan c.*) '97; Ph.B. (*u. of Chicago*) '04; Ph.M. (*Ibid.*) '05. History	Pulaski, Va.
Carothers, Ida Eleanor, *s*	S.B. (*u. of Chicago*) '04; S.M. (*Ibid.*) '05. Botany	St. Louis, Mo.
Carson, Charles Macdonald, *a w*	A.B. (*Toronto u.*) '98. Chemistry, Physics	London, Can.
Carr, Harvey, *s*	S.B. (*u. of Colorado*) '01; S.M. (*Ibid.*) '02; Ph.D. (*u. of Chicago*) '05. Education, Psychology	Ambia, Ind.
Chamberlin, Rollin Thomas, *a w*	S.B. (*u. of Chicago*) '03. Geology	Chicago
Clark, Robert Fry, *a w*	A.B (*Central c.*) '01; A.B. (*Oberlin c.*) '02. English, Semitics, Sociology	Huntington, Ind.
Cresap, Trella Jane, *a w*	A.B. (*u. of Illinois*) '04. English	Urbana
Cross, Ethan Allen, *s a w*	A.B. (*u. of Illinois*) '05. English	Mt. Vernon
Craig, Wallace, *s*	S.B. (*u. of Illinois*) '98. Zoölogy, Philosophy	Chicago
Crowell, Winifred Gardner, *s*	Ph.B. (*u. of Chicago*) '01; Ph.M. (*Ibid.*) '04. English	Barrington, N. S.
David, Henri Charles Edouard, *s a w*	A.B. (*u. of Chicago*) '02; A.M. (*Ibid.*) '04. Romance	Chicago
Davis, David John, *a*	S.B. (*u. of Wisconsin*) '98; Ph.D. (*u. of Chicago*) '05. Pathology, Physiology	Racine, Wis.
Davis, Edith Amy Roberta, *a w*	A.B. (*u. of New Brunswick*) '04. Greek, Latin (*fel.*)	Frederickton, Can.
Davis, John Nicholas, *s a w*	A.B. (*Maryville c.*) '97. Philosophy	Wabasha, Minn.
Day, Dudley Watson, *a*	S.B. (*u. of Chicago*) '04; S.M. (*Ibid.*) '05. Bacteriology	Chicago
Day, Edna Daisy, *s a w*	A.B. (*u. of Michigan*) '96; S.M. (*Ibid.*) '97. Household Administration (*fel.*)	Chicago
Denis, Willey, *s a w*	A.B. (*Tulane u.*) '99; A.M. (*Ibid.*) '02. Chemistry	New Orleans, La.
Dey, Mary Helena, *s*	A.B. (*McGill u.*) '00; A.M. (*Ibid.*) '02. Romance	Simcoe, Can.
Dodd, Walter Farleigh, *s*	A.B. (*Florida State c.*) '98; S.B. (*John B. Stetson u.*) '01; Ph.D. (*u. of Chicago*) '05. Political Science, Political Economy	Washington, D. C.
Donecker, Franklin Christian, *s*	A.B. (*Mt. Union c.*) '94; S.M. (*u. of Chicago*) '03. Mathematics	Chicago
Dresden, Arnold, *w*	(*u. of Amsterdam*) '03. Mathematics.	Amsterdam, Holland

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Dubach, Otto Frederick, *s*	Ph.B. (*Ottowa u.*) '98 Ph.M. (*u. of Chicago*) '98. Political Science	Colorado Springs, Colo.
Edwards, Flora Morey, *a w*	A.B. (*Beloit c.*) '03. English, History	Clinton Junction, Wis.
Enke, Ana Jule, *a w*	Ph.B. (*u. of Chicago*) '05. Romance, German	La Grange
Escott, Edward Brind, *s*	S.B. (*u. of Michigan*) '95; S.M. (*u. of Chicago*) '96. Mathematics	Ann Arbor, Mich.
Evans, William Lloyd, *s*	S.B. (*Ohio State u.*) '92; S.M. (*Ibid.*) '96; Ph.D. (*u. of Chicago*) '05. Chemistry, Physics	Columbus, O.
Farley, Albert Allison, *s a w*	Ph.B. (*Beloit c.*) '95; Ph.M. (*u. of Chicago*) '04. Philosophy	Chicago
Fay, Agnes La Foy, *s*	S.B. (*u. of Chicago*) '04; S.M. (*Ibid.*) '05. Chemistry	Peoria
Goettsch, Henry Max, *a w*	S.B. (*State u. of Iowa*) '99; S.M. (*Ibid.*) '00. Chemistry (*fel.*)	Chicago
Greenfield, Le Roy Bethel, *s*	A.B. (*u. of Oklahoma*) '03; Ph.M. (*u. of Chicago*) '05. English, General Literature, Philosophy	Weatherford, Okla.
Griffin, Frank Loxley, *s a w*	S.B. (*u. of Chicago*) '03; S.M. (*Ibid.*) '04. Mathematics, Astronomy (*fel.*)	Topeka, Kan.
Griffith, Reginald Harvey, *s*	A.M. (*Furman u.*); Ph.D. (*u. of Chicago*) '05. English, German	Austin, Tex.
Grimson, Gudmunder, *s a w*	A.B. (*u. of North Dakota*) '04; A.M. (*Ibid.*) '05. Political Economy, Political Science (*fel.*)	Milton, N. D.
Guittard, Francis Gevrier, *s*	A.B. (*u. of Chicago*) '01; A.M. (*Ibid.*) '02. History, Political Science, English	Waco, Tex.
Hall, Robert Anderson, *a w*	A.B. (*u. of Chicago*) '05. Chemistry, Physics	Houston, Tex.
Hamilton, Ira Calvert, *s*	A.B. (*Indiana u.*) '00. Political Science, History	Markle, Ind.
Harding, Adaline Wright, *s a w*	L.B. (*Fairmount c.*) '01. English	Wichita, Kan.
Hatton, Augustus Raymond, *s a w*	Ph.B. (*Franklin c.*) '98. Political Science, History (*fel.*)	Chicago
Hegner, Robert William, *s a w*	S.B. (*u. of Chicago*) '03; S.M. (*Ibid.*) '04. Zoölogy, Botany	Decorah, Ia.
Heinemann, Paul Gustav, *a w*	S.B. (*u. of Chicago*) '04. Pathology, Physiology (*fel.*)	Chicago
Heinzelman, Jacob Harold, *s a w*	A.B. (*u. of Illinois*) '02. German, Romance	Peoria
Henninger, John Wesley, *a w*	S.B. (*McKendree c.*) '81; S.M. (*Ibid.*) '87. Sociology, Philosophy	Chicago
Heyd, Jacob William, *s*	A.B. (*u. of Missouri*) '03; Ph.M. (*u. of Chicago*) '05. German	Kirksville, Mo.
Hildebrandt, Theophil Henry, *a w*	A.B. (*u. of Illinois*) '05. Mathematics, Astronomy	Carpentersville
Higley, Louis Allen, *s a w*	S.B. (*u. of Chicago*) '00. Chemistry	Zion City
Hill, Herbert Wynford, *s*	L.B. (*u. of California*) '00; Ph.M. (*u. of Chicago*) '04. English	Austin, Tex.
Hilpert, Willis Stose, *s a w*	S.B. (*u. of Chicago*) '03. Chemistry (*fel.*)	Chicago
Hobbs, Glenn Moody, *a*	L.B. (*u. of Illinois*) '92; Ph.D. (*u. of Chicago*) '05. Physics, Chemistry	Chicago
Howard, Earl Dean, *a*	Ph.B. (*u. of Chicago*) '02; Ph.M. (*Ibid.*) '03; Ph.D. (*Ibid.*) '05. Political Economy, Sociology	Philadelphia, Pa.
Hoxie, Robert Franklin, *s a*	Ph.B. (*u. of Chicago*) '93; Ph.D. (*Ibid.*) '05. Political Economy, Political Science	Ithaca, N. Y.
Inskeep, Lorenzo Dow, *s*	A.B. (*Denison u.*) '81; A.M. (*Ibid.*) '84. Political Science, Sociology	Oakland, Cal.
Kennedy, Mary Jackson, *s w*	A.B. (*Belmont c.*) '83; A.B. (*u. of Chicago*) '04; Ph.D. (*Ibid.*) '05. Latin, Greek	Chicago
Krehbiel, Edward Benjamin, *a w*	A.B. (*u. of Kansas*) '02. History, Political Science (*fel.*)	Chicago
Krause, Gertrude Else, *a*	A.B. (*Lake Erie c.*) '04. History, German, Philosophy	Cleveland, O.
Kueffner, Louise Mallinckrodt, *s*	A.B. (*Washington u.*) '93; A.M. (*Ibid.*) '96. German, Romance	Boston, Mass.
Kuhne, Julius William Adolphe, *a*	(*College de France*): A.M. (*u. of Chicago*) '05. Romance	Evanston
Lauck, William Jett, *s*	A.B. (*Washington and Lee u.*) '02. Political Economy	Keyser, W. Va.
Lawrie, James Wright, *a w*	S.B. (*u. of Chicago*) '04; Chemistry, Physics (*fel.*)	Chicago
Leffingwell, Ernest De Koven, *s a w*	A.B. (*Trinity c.*) '95. Geology, Physics	Knoxville
Lennes, Nels Johann, *s*	S.B. (*u. of Chicago*) '98; S.M. (*Ibid.*) '03. Mathematics	Chicago
Leonard, Heman Burr, *s*	S.B. (*u. of Michigan*) '95. Mathematics	Detroit, Mich.
Longley, William Raymond, *s a w*	A.B. (*Butler c.*) '02; S.B. (*u. of Chicago*) '02; S.M. (*Ibid.*) '05. Mathematics (*fel.*)	Noblesville, Ind.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Lynde, Carleton John, *s a*	A.B. (*u. of Toronto*) '95; Ph.D. (*u. of Chicago*) '05. Physics, Chemistry	Madoc, Can.
McCracken, William, *s*	A.B. (*u. of Michigan*) '86; Ph.D. (*u. of Chicago*) '05. Chemistry, Physics	Marquette, Mich.
MacDonald, Laura Anna, *s*	A.B. (*Oberlin c.*) '99; A.M. (*u. of Chicago*) '05. English, Philosophy, Education	Fremont, Neb.
McElroy, Charles Foster, *s*	A.B. (*Butler c.*) '04; A.M. (*u. of Chicago*) '05. Political Economy, Political Science, English.	Springfield
McGuigan, Hugh, *s w*	S.B. (*North Dakota Agricultural c.*) '98. Chemistry, Pathology	Fargo, N. D.
McKibben, George Fitch, *s a*	A.B. (*Denison u.*) '75; A.M. (*Ibid.*) '78; Ph. D. (*u. of Chicago*) '05. Romance	Granville, O.
McLaughlin, Margaret, *s a*	A.B. (*National Normal School, Ohio*) '90; LL.B. (*Ibid.*) 92; A.M. (*u. of Chicago*) '05. English	Smithland, Pa.
McLaury, Anna, *s*	S.B. (*Wellesley c.*) '86; Ph.M. (*u. of Chicago*) '05. English.	Fredonia, N. Y.
Maclear, John Fulton, *s*	A.B. (*u. of Chicago*)) '02; A.M. (*Ibid.*) '03. History.	Chicago
McLearie, John, *s*	A.B. (*Macalester c.*) '97; A.M. (*u. of Chicago*) '05. Sociology	Rapid City, S. D.
McLeod, Andrew Fridley, *s a w*	A.B. (*u. of Chicago*) '03. Chemistry, Physics	Chicago
MacMillan, William Duncan, *s a w*	A.B. (*Fort Worth u., Texas*) '98. Mathematics	Chicago
MacNeish, Harris Franklin, *a w*	S.B. (*u. of Chicago*) '02; S.M. (*Ibid.*) '04. Mathematics, Astronomy	Chicago
Magee, James Dysart, *a w*	A.B. (*Des Moines c.*) '02. Sociology, Political Economy, Philosophy	Des Moines, Ia.
Mangold, George Benjamin, *s*	A.B. (*Cornell c.*) '01; A.M. (*u. of Chicago*) '03. Political Economy, Sociology	Specht's Ferry, Ia.
Matheny, Francis Edmund, *s*	Ph.B. (*Berea c.*) '98. Political Economy, History	Casper, Wyo.
Matson, George Charlton, *a w*	S.B. (*Doane c.*) '00; A.M. (*Cornell u.*) '03. Geology (*fel.*)	Strang, Neb.
Merritt, Albert Newton, *s a w*	A.B. (*Leland Stanford u.*) '01; A.M. (*u. of Chicago*) '04. Political Economy (fel.)	Princeville
Mode, Rowland Hector, *a w*	A.B. (*u. of Toronto*) '98; A.M. (*Ibid.*) '99. Semitics	Toronto, Can.
Moffat, William Eugene, *s*	A.B. (*u. of Chicago*) '96. Greek, Latin	Chicago
Mulkey, Agnes Dora, *a w*	A.B. (*Whitworth c.*) '05. Latin, Greek	Port Townsend, Wash.
Nickell, Marie Baker, *a w*	Ph.B. (*u. of Chicago*) '01. History	Waukesha, Wis.
Noble, Robert Peele, *s*	Ph.B. (*De Pauw u.*) '91; A.M. (*Ibid.*) '94. Physics, Chemistry	Socorro, N. M.
Norris, Frances Helen, *a w*	A.B. (*u. of Kansas*) '01: A.M. (*Ibid.*) '05. English	Iola, Kan.
Northrup, George Tyler, *s*	A.B. (*Williams c.*) '97. Romance, German	Evanston
Norton, Frederick Owen, *s a w*	A.B. (*Kentucky u.*) '93; A.M. (*Ibid.*) '95. Latin	Georgetown, Can.
Opitz, Russell Burton, *s*	S.B. (*u. of Chicago*) '98; S.M. (*Ibid.*) '02; Ph.D. (*u. of Chicago*) '05. Physiology, Histology	New York City
Pace, Lula, *s*	S.B. (*Baylor c.*) '90; S.M. (*u. of Chicago*) '02. Botany, Geology	Waco, Tex.
Paul, Harry G., *s*	A.B. (*u. of Michigan*) '97; A.M. (*u. of Chicago*) '01. English	Peoria
Peabody, Susan Wade, *s a w*	S.B. (*Wellesley c.*) '86. Political Science, History	Chicago
Peaks, Mary Bradford, *s*	A.B. (*u. of Chicago*) '00; Ph.D. (*Ibid.*) '05. Latin, Greek	Chicago
Peterson, Andrew Peter, *s a*	A.B. (*u. of Idaho*) '02; A.M. (*u. of Chicago*) '05. Latin	Moscow, Idaho
Plant, Louis Clark, *s*	Ph.B. (*u. of Michigan*) '97; Ph.M. (*u. of Chicago*) '05. Mathematics	Peoria
Pond, Jean Baird, *a w*	A.B. (*Smith c.*) '05 English, History, History of Art	Chicago
Porter, Nathan Tanner, *s*	A.B. (*u. of Utah*) '00; Ph.M. (*u. of Chicago*) '05. Political Science, Political Economy, Law	Centerville, Utah
Posey, Chessley Justin, *a*	S.B. (*u. of Illinois*) '00; S.M. (*u. of Chicago*) '05. Geology	Chicago
Randall, Ethel Claire, *a*	Ph.B. (*u. of Chicago*) '04. English (*fel.*)	Chicago
Ranson, Stephen Walter, *s a w*	S.B. (*u. of Chicago*) '02; S.M. (*Ibid.*) '03; Ph.D. (*Ibid.*) '05. Neurology, Pathology (*fel.*)	Chicago
Reynolds, George Fullmer, *s*	Ph.B. (*Lawrence u.*) '98; Ph.D. (*u. of Chicago*) '05. English, History, German	Waukan, Wis.
Rhoades, Mabel Carter, *s a w*	Ph.B. (*Syracuse u.*) '98; Ph. M. (*Ibid.*) '03. Sociology	Syracuse, N. Y.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Robinson, Lillian González, *s*	Ph.B. (*u. of Chicago*) '03; Ph.M. (*Ibid.*) '05. Romance, Sanskrit, German	Fargo, N. D.
Ruediger, Gustav Ferdinard, *w*	S.B. (*u. of Wisconsin*) '00. Chemistry, Anatomy	Chicago
Ruger, Henry Alford, *s*	A.B. (*Beloit c.*) '95; A.M. (*u. of Chicago*) '05. Psychology, Philosophy, Neurology	Janesville, Wis.
Ruser, Etta Louise, *s*	A.B. (*Cornell u.*) '02; A.M. (*u. of Chicago*) '05. German	Davenport, Ia.
Sage, Evan Taylor, *a w*	A.B. (*u. of Nebraska*) '02; A.M. (*u. of Chicago*) '04. Latin, Greek (*fel.*)	Beatrice, Neb.
Schlesinger, Herman Irving, *s*	S.B. (*u. of Chicago*) '03; Ph.D. (*u. of Chicago*) '05. Chemistry, Physics (*fel.*)	Milwaukee, Wis.
Schweitzer, Arthur Richard, *a*	Ph.B. (*u. of Chicago*) '00; S.M. (*Ibid.*) '05. Mathematics	Chicago
Scott, Harry Fletcher, *s a w*	A.B. (*Illinois c.*) '96; A.M. (*u. of Chicago*) '04. Latin	Chicago
Shaklee, Alfred Ogle, *a w*	S.B. (*u. of Chicago*) '99. Chemistry, Anatomy	Caldwell, O.
Sherk, Wilfred Hobson, *s*	A.B. (*Oberlin c.*) '99; A.M. (*u. of Chicago*) '05. Mathematics Physics	Chicago
Simons, Rayna, *s*	A.B. (*u. of Chicago*) '04; A.M. (*Ibid.*) '05. Latin	Chicago
Small, Vivian Blanche, *s*	A.B. (*Mt. Holyoke c.*) '96; A.M. (*u. of Chicago*) '05. Latin	Richmond, Me.
Smith, Henry, *a w*	A.B. (*u. of Illinois*) '03; A.M. (*u. of Chicago*) '03. History (*fel.*)	Metamora
Stenmo, Albert, *a w*	A.B. (*u. of North Dakota*) '98. History, Political Science	Hatton, N. D.
Stephens, Frank Fletcher, *s*	Ph.B. (*u. of Chicago*) '04; Ph.M. (*Ibid.*) '05. History	Topeka, Kan.
Taylor, Howard Frank, *s*	A.B. (*Yale u.*) '02. Latin, Greek	Hartford, Conn.
Taylor, Marion Lee, *s a w*	A.B. (*Wellesley c.*) '95. German	Albany, N. Y.
Tolman, Judson Allen, Jr., *s*	A.B. (*u. of Chicago*) '00; A.M. (*Ibid.*) '03. Latin, Greek	El Paso, Tex.
Ullman, Berthold Louis, *a w*	A.B. (*u. of Chicago*) '03. Latin, Greek (*fel.*)	Chicago
VanCleef, Paul, *s a w*	S.B. (*u. of Chicago*) '05. Chemistry	Longview, Tex.
Wood, William Hugh, *s a w*	A.B. (*u. of Nashville*) '99; A.B. (*u. of Chicago*) '05. History	Chicago
Woods, Erville Bartlett, *s a w*	A.B. (*Beloit c.*) '01. Sociology, Political Economy	Racine, Wis.
Wallace, Anna Theresa, *a w*	A.B. (*Leland Stanford u.*) '99. Latin, Romance, English	Palo Alto, Cal.
Warren, David Cassius, *s*	S.B. (*Baylor u.*) '94; A.B. (*Ibid.*) '99; A.M. (*Ibid.*) '02; A.M. (*u. of Chicago*) '05. Physics	Waco, Tex.
Wilson, Delonza Tate, *s*	A.B. (*u. of North Carolina*) '87; A.M. (*Vanderbilt u.*) '96; Ph.D. (*u. of Chicago*) '05. Astronomy, Mathematics	Cleveland, O.
Wilson, Norman Richard, *s*	A.B. (*u. of Toronto*) '99; A.M. (*Ibid.*) '01. Mathematics	Winnepeg, Can.
Wilson, Thomas Matheson, *s a w*	S.B. (*Toronto u.*) '96; S.M. (*u. of Chicago*) '04. Pathology, Physiology	Toronto, Can.
Woodhead, Howard, *s a w*	A.B. (*u. of Chicago*) '00. Sociology, Political Economy	Chicago
Wright, William Kelley, *s a w*	A.B. (*u. of Chicago*) '99. Philosophy (*fel.*)	Canton
Yeomans, Frances Anna, *s*	S.B. (*Mt. Holyoke c.*) '93; Ph.M. (*u. of Chicago*) '05. History	Danville
Zook, Ephraim Jacob, *s*	Ph.B. (*u. of Wooster*) '01; A.M. (*u. of Chicago*) '05. Sociology	Smithville, O.
MEN—112	WOMEN—38	TOTAL—150

III. STUDENTS NOT YET ADMITTED TO CANDIDACY

NOTE.— Students are admitted to candidacy for higher degrees by vote of the faculty on approval of the thesis subject and fulfilment of other conditions under the regulations.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Abbott, Fred Edgerton, *a w*	S.B. (*Northwestern u.*) '03. Anatomy, Physiology	Kearney, Neb.
Abbott, Mabel, *s*	Ph.B. (*u. of Chicago*) '03. English, Romance	Chicago
Abel, Rose, *s*	A.B. (*u. of Kansas*) '01. English	Salina, Kan.
Abernathy, Mary Elizabeth, *s*	A.B. (*u. of Chicago*) '01. History	Chicago

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Adams, Charles Frederick, *s*	B.Agr. (*u. of Missouri*) '97; A.M. (*u. of Kansas*) '03. Zoölogy, Paleontology	Independence, Mo.
Allen, Ezra, *s*	A.B. (*Bucknell u.*) '95; A.M. (*Ibid.*) '96. Neurology, Physiology	Dillon, Mont.
Allen, Tracy Thomas, *s*	A.B. (*Allegheny c.*) '02. Latin	Smethport, Pa.
Amos, Martin Conrad, *s*	A.B. (*Butler c.*) '01; Ph.B. (*u. of Chicago*) '01. Romance, German	Cumberland, Ind.
Anderson, Carrie Olena, *a w*	A.B. (*u. of Kansas*) '05. German, Latin	Morganville, Kan.
Anderson, Daniel, *w*	A.B. (*Bethany c.*) '03. History	Everest, Kan.
Anderson, Ernest, *s*	S.B. (*u. of Texas*) '03; A.B. (*Trinity u.*) '03. Chemistry, Botany	Tehuacana, Tex.
Anderson, Matilda Eloda, *s*	A.B. (*u. of Michigan*) '04. Geology	Port Huron, Mich.
Anderson, William Elijah, *s*	A.B. (*Wittenberg c.*) '02. Mathematics	Mansfield, O.
Andress, James Mace, *a w*	A.B. & Pd.B. (*Michigan State Normal c.*) '05. History	Chesaning, Mich.
Ansell, Nellie Maude, *s*	A.B. (*Washburn c*) '00. Latin	Topeka, Kan.
Arminen, Kaarlo Vilhelme, *s*	A.M. (*u. of Helsinfors, Sweden*). Anatomy, Pathology	Hancock, Mich.
Armitage, Ambrose Wesley, *s*	Ph.B. (*Lawrence u.*) '99. English	Seymour, Wis.
Armstrong, A. Joseph, *s*	A.B. (*Wabash c.*) '02. English	Bloomington, Ill.
Arnett, Bertha Stetson, *a*	A.B. (*Des Moines c.*) '94. Romance, English	Chicago
Arnold, Frank Russell, *s*	A.B. (*Bowdoin c.*) '93. Romance, German	Braintree, Mass.
Arnoldson, Torild, *s a w*	Grad. Student (*Upsala u., Sweden*). German	Chicago
Ashley, Winifred Mayer, *a*	S.B. (*u. of Chicago*). '03. Chemistry	Chicago
Auger, Charles, *s*	A.B. (*u. of Toronto*) '02. English, German	Elora, Can.
Austin, Marshie, *s*	B.L. (*Ohio Wesleyan u.*) '92. German	Wilmington, O.
Auten, Anna Rebecca, *s*	A.B. (*Oberlin c.*) '96. Anatomy, Physiology	Monica
Averill, William Armitage, *a w*	A.B. (*u. of Chicago*) '02. Geology, Geography	Chicago
Axtell, Frederick Gibbs. *s*	A.B. (*Wesleyan u.*) '88. Sanskrit	St. Paul, Minn.
Ayres, Hiram Douthitt, *s*	S.B. (*De Pauw u.*) '02; A.M. (*Cornell u.*) '04. Physics, Mathematics	Greencastle, Ind.
Babcock, Earle Brownell, *s a w*	Ph.B. (*u. of Chicago*) '03. Romance, German (*fel.*)	Chicago
Baber, Zonia, *s*	S.B. (*u. of Chicago*) '04. Geology	Chicago
Bacon, Margaret Reardon, *a w*	Ph.B. (*u. of Chicago*) '04. English, Romance	Chicago
Bailey, John Franklin, *s*	A.B. (*Waynesburg c.*) '03; A.M. (*Columbia u.*) '04. Political Science	Khedive, Pa.
Bailey, Mark, Jr., *s a w*	A.B. (*u. of Oregon*) '88; A.B. (*Harvard u.*) '90; A.M. (*Ibid.*) '91. Latin, Greek	Tacoma, Wash.
Bailey, William Marshall, *s*	A.B. (*Campbell c.*) '01; S.B. (*Ibid.*) '02. Botany, Zoölogy.	Holton, Kan.
Baker, Edward Donald, *s*	A.B. (*u. of Chicago*) '03. History	Trenton, Mo.
Baker, Edward Hall, *a w*	A.B. (*Beloit c.*) '84. Physiology, Anatomy	New York City
Baker, Augusta Emma, *s*	A.B. (*u. of Minnesota*) '03. English	Austin, Minn.
Baker, Riley Andrew, *s*	S.B. (*u. of Texas*) '98. Chemistry	Dallas, Tex.
Barber, George Stanley, *a w*	A.B. (*u. of Wisconsin*) '05. Anatomy, Physiology	Lawton, Okla.
Barber, Gideon Lanning, *a w*	A.B. (*Union c.*) '67. Anatomy	Chicago
Barnard, Arthur Fairchild, *s*	A.B. (*Beloit c.*) '93. Latin, Greek	Chicago
Barnes, Edwin Allen, *s*	Ph.B. *Western Reserve u.*) '03. Physics, Chemistry	Payne, O.
Barnes, Jasper Converse, *s*	A.B. (*Marietta c.*) '90; A.M. (*Ibid.*) '93. Political Economy, Political Science	Maryville, Tenn.
Barnum, Harry Huntington, *s a w*	A.B. (*Amherst c.*) '00. Mathematics	Constantinople, Turkey
Barrows, Harlan Harland, *a*	S.B. (*u. of Chicago*) '03. Geology, Geography	Chicago
Barton, Alvin Lester, *w*	A.B. (*u. of Chicago*) '00. History	Chicago
Baskerville, Catherine Quarles, *s*	A.B. (*Richmond c.*) '01. German	Edmond, Okla.
Baskerville, Charles Read, *s*	A.B. (*Vanderbilt u.*) '96; A.M. (*Ibid*) '98. English	Edomon, Okla.
Bass, Horace Herbert, *s*	S.B. (*u. of Wisconsin*) '02; S.M. (*Ibid*) '03. History	Anderson, Ind.
Bauer, Wilhelmina Babetta, *a w*	A.B. (*Washburn c.*) '05. Mathematics, Astronomy	Topeka, Kan.
Bauer, William Charles, *s*	S.B. (*u. of Cincinnati*) '96. Physics, Chemistry	Baldwin, Kan.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Baumgartner, Milton D., *s*	A.B. (*u. of Kansas*) '02; A.M. (*Ibid*) '03. German	Newton, Kan.
Bear, Olive May, *s*	S.B. (*Knox c.*) '91. English	Decatur
Bechtell, Edith Lyon, *a*	L.B. (*u. of Wisconsin*) '95. English, German	Chicago
Bedford, Scott Elias William, *a w*	A.B. (*Baker u.*) '02; A.M. (*Ibid*) '03. Sociology (*fel.*)	Osage City, Kan
Beers, Ethel Ella, *s a w*	A.B. (*u. of Chicago*) '96. Latin	Chicago
Behnke, Ella, *s*	Ph.B. (*u. of Chicago*) '04. Romance	Davenport, Ia.
Beifus, Joseph, *a w*	A.B. (*u. of Chicago*) '02. German, English (*fel.*)	Chicago
Bell, Charles Thomas, *a w*	A.B. (*u. of Missouri*) '99. Anatomy	Maryville, Mo.
Bell, James Edgar, *s*	S.B. (*u. of Chicago*) '05. Chemistry, Zoölogy	Gettysburg, O.
Bell, Leon Edwin, *a w*	A.B. (*Northwestern u.*) '84; A.M. (*Ibid*) '87. Psychology, Neurology	Chicago
Bell, Spurgeon, *s a w*	S.B. (*u. of Texas*) '02. Political Economy, History	Blanco, Tex.
Belland, Lily, *s*	A.B. (*u. of Chicago*) '02. Latin	Chicago
Beman, Edith Inez, *s*	Ph.B. (*Western Reserve u.*) '01. Geology	Cleveland, O.
Bennett, Julia Cora, *s*	S.B. (*u. of Wisconsin*) '96. Chemistry, Physiology	Cleveland, O.
Benson, Amelia Dodson, *s*	A.B. (*Woman's c. of Baltimore*) '03. Physics.	St. Michaels, Md.
Benson, Robert Louis, *w*	A.B. (*u. of Michigan*) '02: A.M. (*Ibid*) '04. Pathology, Physiology (*fel.*)	Mt. Morris, Mich.
Bernard, Ransom Drips, *s*	A.B. (*u. of Wisconsin*) '04. Anatomy, Physiology	Chicago
Bernstorff, Franklin Adolph, *s*	A.B. (*u. of Missouri*) '02. German.	Rushton, Kan.
Berry, Josephine Thorndyke, *s*	A.B. (*Kansas State u.*) '93; S.B. (*Columbia u.*) '04. Household Administration	Waterville, Kan.
Berry, Julius Edwin, *s*	S.B. (*Mississippi c.*) '02. English	Baldwyn, Miss.
Berry, Lillian Gay, *a w*	A.B. (*Indiana u.*) '99. Latin, Greek (*fel.*)	Bloomington, Ind.
Bevan, William Alfred, *s*	S.B. (*Iowa State c*) '04. Physics, Astronomy	Ames, Ia.
Binford, Raymond, *s a w*	S. B. (*Earlham c.*) '01. Zoölogy, Chemistry	Guilford College, N. C.
Bingham, Walter Van Dyke, *s a w*	A.B. (*Beloit c.*) '01. Philosophy (*fel.*)	Estherville, Ia.
Birkhoff, George David, *a w*	A.B. (*Harvard u.*) '05. Mathematics, Physics (*fel.*)	Chicago
Birr, William Edward, *s*	Ph. B. (*Northwestern c.*) '01. English	Chicago
Bissell, Esther Lucy, *s*	S.B. (*Cornell c.*) '92. English	Oregon
Bjorkland, Alfred, *s*	S.B. (*Drake u.*) '02.; S.M. (*Ibid.*) '03. Chemistry, Physics	Alta, Ia.
Black, John Graeme, *s*	A.B. (*Kenyon c.*) '74; A.M. *Ibid.*) '84. Geology	Wooster, O.
Blair, William Richards, *s a w*	S.B. (*u. of Chicago*) '04. Physics	Emporia, Kan.
Blatherwick, Alexander Arthur, *a w*	Ph.B. (*Iowa c.*) '05. Anatomy	Grinnell, Ia.
Blatherwick, George Washington, *a w*	Ph.B. (*Iowa c.*) '05. Anatomy	Grinnell, Ia.
Blount, Mary Putnam, *s a w*	S.B. (*u. of Michigan*) '95. Zoölogy (*fel.*)	Byron
Boardman, Vincent Evan, *s*	L.B. (*Pacific u.*) '00; A.M. (*u. of Washington*) '04. History	Chicago
Bocock, Clarence Edgar, *s*	A.B. (*u. of Illinois*) '99. Zoölogy	Burley, Idaho
Bogard, Augustus, *s*	A.B. (*Bethel c.*) '96. Mathematics	Big Rock, Tenn.
Bonner, Annie Willson, *a w*	A.B. (*Toronto u.*) '90. English, Semitics	Ridgetown, Can.
Booz, Archie Charles, *s*	S.B. (*Knox c.*) '04. Physics, Chemistry	Adrian
Boswell, Thomas Edward, *s*	A.B. (*Colgate u.*) '00. Romance, German	Grand Island, Neb.
Bower, John Fulmer, *s*	A.B. (*Indiana u.*) '01. History	Fort Wayne, Ind.
Bowman, Nina Clare, *s*	A.B. (*Kansas State u.*) '93. Latin	Newton, Kan.
Boyd, Margaret Melissa, *a w*	A.B. (*Mississippi Industrial inst. and c.*) '03. Mathematics	Macon, Miss.
Bradford, John Ewing, *s*	A.B. (*Monmouth c.*) '89; D.B. (*Xenia Theological Sem.*) History	Media
Bramhall, Frederick Dennison, *a w*	Ph.B. (*u. of Chicago*) '02. Political Science	Chicago
Bramlette, Edgar Elliott, *s*	A.B. (*Vanderbilt u.*) '83. A.M. (*u. of Texas*) '86. German	Stephenville, Tex.
Branch, Anna Lane, *s*	A.B. (*Washington u.*) '95. Mathematics, Physics	Webster Groves, Md.
Brandenburg, Samuel Jacob, *s*	A.B. (*Miami u.*) '04. Sociology	Campbellstown, O.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
retnall, George Herbert, s	A.B. (*Cornell c.*) '96; A.M. (*Ibid.*) '97. Botany	Monmouth
retz, Julian Pleasant, *a w*	A.B. (*William Jewell c.*) '99. History (*fel.*)	Chicago
reyer, John Henry, *a w*	A.B. (*Wheaton c.*) '05. Anatomy	Hinsdale
ridge, Laura Belle, *s*	A.B. (*u. of Nebraska*) '99. Mathematics	Fremont, Neb.
ridgman, Donald Elliott, *a w*	A.B. (*Hamline u.*) '03. Political Economy (*fel.*)	St. Paul, Minn.
ristol, Anna Eloise, *s*	Ph.B. (*u. of Michigan*) '00. Latin	Webster Grove, Mo.
roadus, Eleanor Hammond, *a*	A.B. (*u. of Chicago*) '02. History, Political Science	Vermilion, S.Dak.
ronson, Christine Frederica, s	Ph.B. (*u. of Michigan*) '93. History	Morgan Park
rookover, Dollie Hortense, *s*	A.B. (*Kansas State u.*) '01. German	Eureka, Kan.
rown, Benjamin Henton, *s*	A.B. (*Washington and Lee u.*) '93. Anatomy	Waverly, Mo.
rown, Edward John Frederick, *s*	A.M. (*u. of Nebraska.*) Romance	Chicago
rown, Fay Cluff, *s*	A.B. (*Indiana u.*) '04. Physics	Lyons, Ind.
rown, Horatio Alford, *w*	A.B. (*u. of Wooster*) '02. Anatomy	Wooster, O.
rown, John Newman, *s*	A.B. (*Emory and Henry c.*) '04. Latin	Jackson, La.
rown, Joseph Clifton, *s*	S.B. (*Hanover c.*) '01. Mathematics	Charleston
rownlee, Helen, *s*	A.B. (*Mississippi Industrial inst. and c.*) '04. English	Port Gibson, Miss.
rownlee, Martha Wilhelmine Tarnow, *s*	Ph.B. (*u. of Chicago*) '03. Chemistry	Chicago
rumbaugh, Errol Vane, *s*	A.B. (*Baker u.*) '97; A.M. (*Wabash c.*) '00. Philosophy	Marshalltown, Ia.
ryan, William Henry, *s a w*	S.B. (*u. of Chicago*) '04. Physics, Chemistry	Salemville, O.
uckborough, Siegel Abishai, *s*	A.B. (*McMaster u.*) '02; A.B. (*Harvard u.*) '03. Chemistry, Geology	Bookton, Can.
uedel, Mabel Jeannette, *s*	A.B. (*Parsons c.*) '02. German	Fairfield, Ia.
uffum, Roy Luman, *a w*	A.B. (*Williams c.*) '05. Anatomy, Chemistry	Toulon
urd, Mary, *s*	A.B. (*u. of Kansas*) '96. Latin, Greek	Wichita, Kan.
urton, Emmette Young, *s*	A.B. (*u. of Virginia*) '02. Mathematics	Parnassus, Va.
abell, Elvira Daniel, *a*	Ph.B. (*u. of Chicago*) '02. English	Chicago
alvert, Maud Hewitt, *s*	Ph.B. (*u. of Chicago*) '04. Romance	Peoria
ameron, Effie Estella, *s*	A.B. (*Drake u.*) '02. English, Latin	Keswick, Ia.
ammack, Ira Insco, *s*	S.B. (*Earlham c.*) Political Economy, Sociology	Kansas City, Mo.
ampbell, Charles Boyle, *s*	Ph.B. (*DePauw u.*) '00. Romance, German	Arcola
ampbell, Harry Morgan, *s*	Ph.B. (*Dickinson c.*) '01. Chemistry	Verona, Pa.
annon, Madge Carrol, *s*	A.B. (*Vanderbilt u.*) '03. Latin	McKenzie, Tenn.
apps, Joseph A., *s*	A.B. (*Illinois u.*) '91; A.M. (*Harvard u.*) '96. Pathology	Chicago
apps, Sarah Ellen, *a*	Ph.B. (*u. of Chicago*) '98. German, Romance	Jacksonville
apps, Stephen Reid Jr., *s a w*	A.B. (*u. of Chicago*) '03. Geology (*fel.*)	Jacksonville
arman, Joel Ernest, *s a w*	S.B. (*Simpson c.*) '01. Geology (*fel.*)	St. Charles, Ia.
arr, Wilbert Lester, *a w*	A.B. (*Drake u.*) '98; A.M. (*Ibid.*) '99. Latin, Sanskrit	Mound City, Mo.
arter, Lilian Gertrude, *s*	S.B. (*Moore's Hill c.*) '91. Botany.	Delaware, Ind.
arter, Ralph Merle, *a w*	A.B. (*u. of Illinois*) '05. Anatomy, Neurology	Decatur
astro, Matilde, *a w*	A.B. (*u. of Chicago*) '00. Philosophy (*fel.*)	Chicago
atchings, Nancy Higginbotham, *a*	A.B. (*Woman's c., Baltimore*) '03. Romance (*fel.*)	Atlanta, Ga.
ave, Charles Elmer, *s*	A.B. (*Upper Iowa u.*) '04. Latin	Ames, Ia.
halfant, May Effie, *s*	A.B. (*Monmouth c.*) '00. Latin	Oquawka
hamberlain, Harriet E., *s*	Ph.B. (*Oberlin u.*) '96. Latin	Dubuque, Ia.
handler, Elbert Edwin, *a w*	A.B. (*William Jewell c.*) '91; LL.D. (*u. of Michigan*) '93. Chemistry, Physics	Chicago
harlton, Orlando Clarke, *s a w*	S.B. (*Hanover c.*) '72; A.M. (*Ibid.*) '85. Botany, Zoölogy	Chicago
hase, David Gamble, *a w*	S.B. (*u. of Nashville*) '02. History	Ardon, Miss.
herington, Frank Barnes, *a w*	A.B. (*Ohio Wesleyan u.*) '99; A.B. (*Harvard u.*) '00; A.M. (*Ibid.*) '01. English	Lancaster, O.
hilds, Alpha Garrett Wright, *a w*	A.B. (*Franklin c.*) '97; A.M. (*Ibid.*) '99. Physiology (*fel.*)	Madison, Ind.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Childs, Ben, *s a w*	A.B. (*Knox c.*) '03. Anatomy	Keithsburg
Christenson, Andrew B., *s*	A.B. (*u. of Michigan*) '01. German	Salt Lake, Utah
Church, Anna, *s*	A.B. (*u. of Nebraska*) '00. English	Nebraska City, Neb.
Claassen, Peter A., *s w*	A.B. (*u. of Kansas*) '96. Romance.	Evanston
Clark, Clifford Pease, *s*	A.B, (*Connecticut Wesleyan u.*) '95. Latin, Greek	Wichita, Kan.
Clark, Edith Lanier, *s*	A.M. (*u. of Texas*) '01. English	Denton, Tex.
Clark, Elbert, *a*	S.B. (*u. of Arkansas*) '03. Anatomy, Physiology	Waldo, Ark.
Clark, Eva Gill, *s*	A.B. (*Baker u.*) '95; A.M. (*Ibid.*) '04. Latin	Manhattan, Kan.
Clark, Frederick William, *s*	A.B. (*Manitoba u.*) '92. Greek, Latin	Winnepeg, Can.
Clark, Wayland Blair, *a*	S.B. (*Denison u.*) '97; S.M. (*Ibid.*) '00. Chemistry (*fel.*)	Granville, O.
Clark, Zoura Lane, *s a w*	A.B. (*u. of Chicago*) '05. English	Chicago
Clarke, Charles Robertson, *s*	A.B. (*Indiana u.*) '97. Anatomy	Auburn, Ind.
Clarke, Nellie Greene, *s*	A.B. (*Iowa c.*) '00. English	Grinnell, Ia.
Clarke, William Lowe, *s*	A.B. (*Vanderbilt u.*) '01. Latin	Lexington, Tenn.
Clawson, Edith, *a w*	A.B. (*Western c., Oxford*) '00; A.B. (*u. of Chicago*) '01. German, Romance	Hamilton, O.
Clendening, Maude Torrence, *s*	Ph.B. (*u. of Chicago*) '04. Geology	Chicago
Clevenger, Charles Henry, *s*	S.B. (*Ohio State u.*) '02. Mathematics, Physics	Sidney, O.
Clifford, Oliver Charles, *s a w*	A.B. (*Oberlin c.*) '93. Physics, Mathematics (*fel.*)	Chicago
Coffman, George Raleigh, *s*	A.B. (*Drake u.*) '03. English	Lenox, Ia.
Cole, Fay Cooper, *a w*	S.B. (*Northwestern u.*) '03. Anatomy	Chicago
Colwell, Howard Griffith, *s*	A.B. (*William Jewell c.*) '97. Greek	St. Louis, Mo.
Conrad, Ashley Taylor, *s*	S.B. (*Northwestern u.*) '01. Botany	Chicago
Conrad, Sara Eugenie *s a*	A.B. (*u. of Nebraska*) '76. Romance	Kansas City, Mo.
Cooper, Clyde Barnes, *s*	A.B. (*u. of Nebraska*) '97; A.M. (*u. of Iowa*) '01. English	Lafayette, Ind.
Coonradt, Alice Twogood, *a w*	A.B. (*Rockford c.*) '05. Greek, Latin	Rockford
Corbett, Ralph, *a w*	A.B. (*u. of Wisconsin*) '05. Chemistry, Anatomy	Harvard
Corrie, Eugene, *s*	S.B. (*McKendrie c.*) '04. Mathematics	Bridgeport
Coulter, Vincil Carey, *a w*	Ph.B. (*Lagrange c.*) '99; A.B. (*William Jewell c.*) '03; A.M. (*Brown u.*) '05. English	Liberty, Mo.
Covert, Sara Eloina, *s*	S.B. (*Franklin c.*) '90. Latin	Franklin, Ind.
Covington, David Anderson, *a w*	A.B. (*Wake Forest c.*) '03; A.M. (*Ibid.*) '04. Greek, Latin (*fel.*)	Monroe, N. C.
Cowley, Elizabeth Buchanan, *s*	A.B. (*Vassar c.*) '01; A.M. (*Ibid.*) '02. Mathematics, Physics	Poughkeepsie, N. Y.
Craven, Luna, *s*	A.B. (*Eureka c.*) '05. English	Wichita, Kan.
Crocker, William, *s a w*	A.B. (*u. of Illinois*) '02; A.M. (*Ibid.*) '03. Botany, Chemistry (*fel.*)	Chicago
Culmer, Myrtle Asbury, *s*	A.B. (*Ohio Wesleyan u.*) '02. Zoölogy, Geography	Denison, Ia.
Culver, James Washington, *s*	S.B. (*Alabama Polytechnic inst.*) '96; S.M. (*Ibid.*) '98. Mathematics	Sherman, Tex.
Cunningham, Emma Nettie, *s*	Ph.B. (*Western c. Ia.*) '00; Ph.B. (*u. of Chicago*) '05. English	Hansell, Ia.
Damon, Alice Bond, *a w*	A.B. (*Wellesley c.*) '98. Zoölogy	Framingham, Mass.
Clifford, Charles Oliver, *s a w*	A.B. (*Oberlin c.*) '93. Physics, Mathematics	Chicago
Darby, Arleigh Lee, *s*	A.B. (*Waynesburg c.*) '99. Latin, Romance	Waynesburg, Pa.
Darling, Walter Gregory, *a w*	A.B. (*u. of Wisconsin*) '05. Anatomy	Chrystal Falls, Mich.
David, Charlotte Tenney, *a w*	L.B. (*Mt. Holyoke*) '94; A.B. (*Ibid.*) '04. English	Chicago
Davidson, David McLeod, *s a w*	A.B. (*Tulane u.*) '04, Chemistry	New Orleans, La.
Davidson, Eleanor Gaddis, *w*	A.B. (*Wells c.*) '05. Philosophy, Sociology	Chicago
Davidson, Margaret, *a w*	Ph.B. (*u. of Chicago*) '02. English (*fel.*)	Chicago
Davis, Calvin Olin, *s*	A.B. (*u. of Michigan*) '95; A.M. (*Ibid.*) '04. Philosophy	South Bend, Ind.
Davis, Henry Campbell, *s*	A.B. (*South Carolina c.*) '98. English, German	Columbia, S. C.
Davis, Mary Alice, *s*	A.B. (*Wellesley c.*) '96. English	Chicago
Davis, Robert Gaylord, *a w*	S.B. (*Simpson c.*) '05. Anatomy	Indianola, Ia.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Davis, Walter Scott, *s*	A.B. (*DePauw u.*) '89: A.M. (*Cornell u.*) '92. History, Political Science	Richmond, Ind.
Davis, William Reese, *a*	A.B. (*Ripon c.*) '01. English	Chicago
Dawson, John Charles, *s*	A.B. (*Georgetown c.*) '01. Romance	Falmouth, Ky.
Day, Artemus Lawrence, *s*	S.B. (*u. of Chicago*) '05. Botany	Mt. Carmel, O.
Deadwick, Thomas Oakley, *s*	A.B. (*u. of Tennessee*) '72; A. M. (*Ibid.*) '80. Latin, Romance	Clarksville, Tenn.
DeCew, Louisa Carpenter, *s*	S.B. (*u. of Chicago*) '98. Geology	Chicago
Deere, Gilbert Demarel, *s*	Ph.B. (*Franklin c.*) '03. Political Science	Franklin, Ind.
DeLury, Ralph Emerson, *s*	A.B. (*Toronto u.*) '03; A.M. (*Ibid.*) '04. Chemistry	Manilla, Can.
Dickson, George Alexander, *s*	A.B. (*Washington and Jefferson c.*) '94; A.M. (*Ibid.*) '97. History	New Castle, Pa.
Dochweiler, Edith Elizabeth, *a w*	A.B. (*Butler c.*) '05. English, German	Indianapolis, Ind.
Donaldson, Olive, *s*	A.B. (*u. of Chicago*) '99. Greek	Leipsic, O.
Doniat, Josephine C., *s*	A.B. (*u. of Chicago*) '00. German	Chicago
Doseff, Dose, *a w*	S.B. (*Whitworth c.*) '05. Anatomy	Tacoma, Wash.
Douglass, Walter Woodroe, *s*	A.B. (*u. of Kansas*) '98. English	Kansas City, Kan.
Dowell, Martha Caroline, *s*	A.B. (*u. of Chicago*) '05. Latin	McKinney, Tex.
Dowell, Sareva, *s*	A.B. (*Amity c.*) '93; A.M. (*Ibid.*) '99. Latin	York, Neb.
Dowling, Evaline Pearl, *s*	Ph.B. (*u. of Chicago*) '05. English	Denver, Colo.
Drayer, Howard C., *s*	A.B. (*Hedding c.*) '96. Botany	St. Louis, Mo.
Drew, David Abbott, s	A.B. (*Savanna u.*) '88; A.M. (*Ibid.*) '91. Astronomy, Mathematics	Baraboo, Wis.
Duncombe, Frances Evaline, *s*	A.B. (*u. of Nebraska*) '97. English	Lincoln, Neb.
Dunn, Elizabeth Hopkins, *w*	A.B. (*Iowa c.*) '89; A.M. (*Ibid.*) '92. Neurology	Chicago
Dutton, Charlotte Reed, *a w*	Ph.B. (*u. of Chicago*) '05. History	Meadville, Pa.
Dye, Alexander Vincent, *s*	A.B. (*William Jewell c.*) '01; A.M. (*Ibid.*) '02. German	Liberty, Mo.
Easterling, Elbert Daniel, *s*	A.B. (*South Carolina c.*) '00. Mathematics	Bennettsville, S. C.
Edenfield, Robert Wilson, *s*	A.B. (*Mercer u.*) '01. Mathematics	Cave Spring, Ga.
Edgar, Russell Bliss, *s*	S.B. (*u. of Alabama*) '02; S.M. (*Ibid.*) '03. Mathematics	Montgomery, Ala.
Eggers, Harold Everitt, *a w*	S.B. (*u. of Wisconsin*) '03. Anatomy	Two Rivers, Wis.
Elias, Edward, *s*	A.B. (*Harvard u.*) '00. German	Lafayette, Ind.
Elliott, Addison Eugene, *w*	S.B. (*Knox c.*) '03. Physiology	Table Grove
Elliott, Elizabeth Beatty, *s*	Ph.B. (*Colorado c.*) '01. English	Monument, Colo.
Emerson, Frederick Valentine, *a w*	A.B. (*Colgate u.*) '98. Geography, Geology (*fel.*)	Union City, Pa.
Emery, William Thomas, *s*	S.B. (*Beloit c.*) '00. Physics, Chemistry	La Crosse, Wis.
Emrich, Cora Maria, *s*	A.B. (*Butler c.*) '00; Ph.B. (*u. of Chicago*) '01. English	Indianapolis, Ind.
Erskine, Lucile, *s*	A.B. (*Washington u.*) '01. English	St. Louis, Mo.
Evans, Alvin Eleazer, *s*	A.B. (*Cotner u.*) '96; A.M. (*u. of Nebraska*) '98. Greek, Latin	Bethany, Neb.
Everett, Mrs. Naomi, *s*	Ph.B. (*u. of Chicago*) '02. Romance	Huntington, West Va.
Fahnestock, Edith, *s*	L.B. (*Western Reserve u.*) '94. Romance	Cleveland, O.
Faulkner, Elizabeth, *a*	A.B. (*Old u. of Chicago*) '85. Greek	Chicago
Faurot, Albert Alfred, *s*	L.B. (*u. of Nebraska*) '91; A.M. (*Ibid.*) '95. German	Racine, Wis.
Ferguson, Mara Lu, *a*	L.B. (*Berea c., Ky.*) '02; Ed.B. (*College of Education, u. of Chicago*) '02. Geology	West Springfield, Pa.
Ferris, Sarah Lucile, *a w*	A.B. (*Milwaukee Downer c.*) '98; A.B. (*Radcliffe c.*) '99; A.M. (*Ibid.*) '00. Latin	Chicago
Field, Floyd, *a*	A.B. (*Willamette u.*) '97; A.B. (*Harvard u.*) '00; A.M. (*Ibid.*) '02. Mathematics	Evanston
Filson, David Elliott, *s*	A.B. (Lafayette c.) '96; A.M. (*Princeton u.*) '98. Mathematics	Easton, Pa.
Finkbeiner, Thomas, *s*	D.B. (*Northwestern u.*) '96; Ph.M. (*Ibid.*) '04. German	Naperville
Fischer, Alfred Herman, *s*	A.B. (*Wheaton c.*) '05. Mathematics	Elmhurst
Fischer, Augustus Radcliffe, *s*	Ph.B. (*u. of Chicago*) '05. History	Chicago
Flagg, Elizabeth Gorsline, *s*	A.B. (*u. of Wyoming*) '98. Mathematics	Frankfort, Kan.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Flammer, Ernest, *a*	S.B. (*u. of California*) '03. Physics (*fel.*)	Berkeley, Cal.
Flynn, Thomas Edwin, *a w*	A.B. (*Macalester c.*) '05. Anatomy	Redwood Falls, Minn.
Flint, Helen Currier, *s*	A.B. (*Mt. Holyoke c.*) '91. Greek	Concord, N. H.
Fogle, David Edgar, *s*	A.M. (*Georgetown c.*) '95. Latin, Romance	Georgetown, Ky.
Foudray, Elbertie, *s*	S.B. (*Northwestern u.*) '03. Chemistry	Evanston
Fowler, Earle Broadus, *a w*	A.B. (*Wake Forest c.*) '03. English, Romance	Rolesville, N. C.
Frankham, Charles R., *s*	A.B. (*Otterbein u.*) '96; A.M. (*Ohio State u.*) '03; LL.B. (*Ibid.*) '04. Political Science.	Columbus, O.
Franklin, Martha Anderson, *s*	A.M. (*Randolph-Macon Woman's c.*) '97. Chemistry	Lynchburg, Fa.
Frazeur, Annie Laurie, *s*	A.B. (*u. of Chicago*) '01. Latin	Normal
Frees, Caroline Emily, *s*	Ph.B. (*Des Moines c.*) '03. English	Des Moines, Ia.
Fretwell, Elbert Kirtley, *a w*	Ph.B. *La Grange c.*) '99; A.M. (*Ibid.*) '04; A.M. (*Brown u.*) '05. English	Williamstown, Mo.
Freud, Benjamin Ball, *s w*	S.B. (*u. of Chicago*) '04. Chemistry	Chicago
Fry, Erma Marie, *s*	A.B. (*Midland c.*) '03. English	Abilene, Kan.
Fuhs, Isidore Harlem, *s*	A.B. (*Indiana u.*) '05. Pathology	Mt. Vernon, Ind.
Fuller, Nellie Adele, *a w*	A.B. (*u. of Chicago*) '05. Latin, History	Chicago
Furlong, Thomas Henry, *s*	S.B. (*u. of Chicago*) '01. Physics, Mathematics	Chicago
Gaenssle, Carl, *s*	Dip. (*Concordia c.*) '93. History, Latin	Milwaukee, Wis.
Gage, Dora Inez, *s*	A.B. (*u. of Michigan*) '04. Philosophy	Chicago
Gardner, Wright Austin, *s*	S.B. (*Albion c.*) '02. Botany.	Peoria
Garner, Alfred William, *s a w*	S.B. (*Mississippi Agricultural and Mechanical c.*) '00. History	Summit, Miss.
Gavin, Helena, *w*	Ph.B. (*u. of Chicago*) '05. General Literature	Walworth, Wis.
Geigley, Amanda Eddy, *a w*	S.B. (*Knox c.*) '01. Zoölogy	Chicago
Gilchrist, Lachlan, *a w*	A.B. (*u. of Toronto*) '04; A. M. (*Ibid.*) '05. Physics, Chemistry (*fel.*)	Toronto, Can.
Gilman, Albert Franklin, *s*	S.B. (*Amherst c.*) '97; A.M. (*Ibid.*) '01. Chemistry	Maryville, Tenn.
Gilmer, Albert Hatton, *s*	S.B. (*Knox c.*) '00. English	Detroit, Mich.
Gilson, Franklin Leonard, *s*	Ph.B. (*Upper Iowa u.*) '99. English	Winfield, Kan.
Gittinger, Roy, *s*	A.B. (*u. of Oklahoma*) '02. History	Norman, Okla.
Goettsch, Emil, *a*	S.B. (*u. of Chicago*) '03. Anatomy (*fel.*)	Davenport, Ia.
Gomez, Liborio y Pineda, *s a w*	A.B. (*San Juan de Letran*) '03. Physiology	Calumpit, P. I.
Goodman, Herbert Marcus, *a w*	S.B. (*u. of Chicago*) '05. Pathology	Chicago
Gorby, John William, *s a w*	A.B. (*Marietta c.*) '01; A.M. (*u. of Arizona*) '03. English	Chicago
Gore, Herbert Charles, *s*	S.B. (*u. of Michigan*) '99. Chemistry	Washington, D. C.
Gould, James Edward, *s*	Ph.B. (*u. of Washington*) '96. Mathematics	Chicago
Graham, Evarts Ambrose, *s*	A.B. (*Princeton u.*) '04. Pathology	Chicago
Granberry, Elizabeth Walker, *s w*	Ph.B. (*u. of Chicago*) '04. English	Chicago
Grave, Benjamin Harrison, *s*	S.B. (*Earlham c.*) '03. Botany	Monrovia, Ind.
Green, Susan Allen, *a w*	S.B. (*Smith c.*) '05. Botany	Wakefield, Mass.
Griffith, Dudley David, *s*	A.B. (*Simpson c.*) '03. Greek	Council Bluffs, Ia.
Groman, Herman Charles, *s*	A.B. (*Yale u.*) '04. Pathology, Anatomy	Odebolt, Ia.
Gronow, Hans Ernst, *s a w*	Ph.B. (*u. of Chicago*) '05. German (*fel.*)	Chicago
Grose, Merritt Roy, *a w*	A.B. (*Findlay c.*) '05. English	Findlay, O.
Guazon, Patenciano C., *s a*	A.B. (*Atenzo de Manila*) '03. Pathology, Physiology	Paudakan, Manila, P. I.
Gumm, Charles Clayton, *s*	A.B. (*Washington c.*) '00; A.M. (*Vanderbilt u.*) '02. English	Showell, Md.
Gurney, Lawrence Emery, *a w*	A.B. (*Colby c.*) '99. Physics, Mathematics (*fel.*)	Holliston, Mass.
Guthrie, Charles Claude, *s*	S.B. (*Woodlawn inst.*) '97; M.D. (*u. of Missouri*) '01. Pathology	Columbia, Mo.
Haas, William Herman, *s*	A.B. (*u. of Chicago*) '02. English	Bellevue, O.
Hale, Berdena Mabel, *s*	Ph.B. (*u. of Chicago*) '99. English	Oshkosh, Wis.
Hall, Elizabeth Asenath, *a w*	A.B. (*Indiana u.*) '05. English	Chicago

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Hall, Elizabeth Twining, *s*	A.B. (*u. of Illinois*) '00; A.M. (*Ibid.*) '01. English	Downs
Hall, Ernest Mosiah, *s*	A.B. (*Brigham Young c.*) '05. Botany	Logan, Utah
Hall, George W., *s*	S.B. (*Nebraska c.*) '90. Neurology	Chicago
Hall, Gertrude Ella, *s a w*	A.B. (*Cornell u.*) '97. German (*fel.*)	Albany, N. Y.
Ham, Ernest Guy, *s*	A.B. (*Dartmouth c.*) '94. Latin	Randolph, Vt.
Hance, James Harold, *s*	S.B. (*Northwestern u.*) '01. Chemistry	Chicago
Hanchett, William MacMicken, *s a w*	A.B. (*Harvard u.*) '03. Physiology, Anatomy	Council Bluffs, Ia.
Hann, Frank L., *a w*	Ph.B. (*Cornell c.*) '02; Ph.M. (*Ibid.*) '03. Chemistry	Mount Vernon, Ia.
Hanna, Genevieve, *s*	A.B. (*Mt. Union c.*) '00. Mathematics, English	Middle Point, O.
Hanson, Daisy May, *s*	A.B. (*u. of Nebraska*) '01. Physiology, Neurology	Lincoln, Neb.
Hardin, John Alexander, *s*	A.B. (*u. of Tennessee*) '03. Mathematics	Sweetwater, Tenn.
Harms, Frank Henry, *s a*	Ph.B. (*u. of Chicago*) '99. Anatomy, Physiology	Chicago
Harper, Samuel Northrup, *s a w*	A.B. (*u. of Chicago*) '02. Political Science	Chicago
Harris, Lenna Pearl, *s*	A.B. (*Knox c.*) '96. Latin, English	Keosauqua, Ia.
Hart, Harriet, *s*	A.B. (*u. of Nebraska*) '05. Geology, Physics	Lincoln, Neb.
Hartigan, Eugene Lawrence, *a w*	Ph.B. (*u. of Chicago*) '04. Anatomy, Zoölogy	Chicago
Haskins, Beatrice, *s*	A.B. (*u. of Michigan*) '02. English	Jackson, Mich.
Hasslock, Augusta Thekla, *s*	S.B. (*u. of Tennessee*) '02. Geology	Nashville, Tenn.
Hatfield, Walter Wilbur, *a w*	A.B. (*Illinois c.*) '02. Psychology	Chicago
Hayden, Floyd Smith, *a w*	A.B. (*Indiana u.*) '05. English	Lowell, Ind.
Hayes, Joseph William, *s a w*	A.B. (*Amherst c.*) '03. Philosophy (*fel.*)	Rochester, N. Y.
Hayes, Mary Holmes Stevens, *s a w*	A.B. (*u. of Wisconsin*) '04. Psychology, Philosophy	Chicago
Heath, Harry Colson, *s*	S.B. (*Cornell c.*) '03. Geology	Clear Lake, Ia.
Henderson, Sara Emily, *s*	Ph.B. (*u. of Chicago*) '02. English	Knoxville, Ia.
Herndon, Carrie Putnam, *a w*	Ph. B. (*u. of Chicago*) '01. History	Chicago
Hibbard, Laura Alandis, *s*	A.B. (*Wellesley c.*) '05. English	Chicago
Higgins, Annas, *s*	Ph.B. (*u. of Chicago*) '03. Education	Chicago
Highley, Aiden Marvin, *s*	A.B. (*Indiana u.*) '03. Mathematics	Converse, Ind.
Hill, Albert Ellsworth, *s a*	A.B. (*u. of Chicago*) '99. English	Chicago
Hill, Flora Elsie, *s*	L.B. (*u. of Michigan*) '99; A.M. (*Ibid.*) '05. English	Marquette, Mich.
Hill, Mbessa, *s*	A.B. (*Hanover c.*) '04. Latin.	Hanover, Ind.
Hill, Sarah Deborah, *s*	A.B. (*Earlham c.*) '01. Romance, German	Richmond, Ind.
Hills, Thomas McDougall, *s a w*	Ph.B. (*Wooster u.*) '02. Geology	Wooster, O.
Hinckley, Franklin Arza, *s a w*	S.B. (*Brigham Young c.*) '01. Physics	St. Johns, Ariz.
Hinckley, Theodore Ballou, *s*	Ph.B. (*u. of Chicago*) '04. English	Chicago
Hinkle, Martha E., *a*	L.B. (*Northwestern u.*) '01. English	Chicago
Hinkle, Edgar Clayton, *s*	A.B. (*Indiana u.*) '01. Mathematics	Winona, Minn.
Hoebke, Ada Mary, *a*	A.B. (*Kalamazoo c.*) '04. English, History, German	Kalamazoo, Mich.
Hogan, Edgar Poe, *s*	A.B. (*Harvard u.*) '93; A.M. (*Ibid.*) '99. Anatomy	Birmingham, Ala.
Hole, Allen David, *s*	S.B. (*Earlham c.*) '97; A.M. (*Ibid.*) '01. Geology	Richmond, Ind.
Holmes, Harriet Fay, *a*	A.B. (*Vassar c.*) '95. Chemistry, Physiology	Chicago
Holmes, Harry Nicholls, *s*	S.B. (*Westminster c.*) '99. Chemistry	Valant, Pa.
Hopkins, Albert Lafayette, *s a w*	A.B. (*u. of Chicago*) '05. Political Economy (*fel.*)	Hickory, Miss.
Hopkins, Annette Brown, *s*	A.B. (*Woman's c. of Baltimore*) '01. English	Baltimore, Md.
Hopkins, Louis Allen, *a w*	A.B. (*Butler c.*) '05. Mathematics	Kokomo, Ind.
Hornbrook, Adelia Roberts, *s*	A.B. (*Indiana u.*) '93; A.M. (*Ibid.*) '94. Philosophy	Chicago
Hornor, Vara Edmondson, *s*	S.B. (*Baylor c.*) '01. English	Waco, Tex.
Hornstein, Fred, *w*	Ph.B. (*u. of Chicago*) '05. Philosophy	Chicago
Horton, Jessie Margaret, *s*	A.B. (*u. of Michigan*). Pathology	Chicago
Hospes, Cecilia, *s*	A.B. (*Washington u.*) '96; A.M. (*Ibid.*) '02. German	St. Louis, Mo.
Hoss, Elizabeth Katherine, *a w*	A.B. (*u. of Chicago*) '04. English	Greenwood, La.

NAME	DEGREE ; DEPT. OF STUDY	HOME ADDRESS
House, Ralph Emerson, *s*	L.B. (*u. of Missouri*) '00; A.M. (*Ibid.*) '00. Romance	Salt Lake, Utah
Hovde, Carl Herman Rieber, *a w*	A.B. (*Luther c.*) '04. Anatomy, Physiology	Blair, Wis.
Howard, Randolph Levi, *s*	A.B. (*Shurtleff c.*) '05. Latin, Greek	Fremont
Hoy, Nathaniel Elisha, *a*	A.B. (*Macalester c.*) '01. English	Winthrop, S.D.
Hubbard, Alice Philena Felicia, *s*	S.B. (*u. of Texas*) '00; S.M. (*Ibid.*) '02. Romance	Austin, Tex.
Hudson, Mary Cornelia, *s*	A.B. (*Mississippi Industrial inst. and c.*) '99. History	Columbus, Miss.
Hughes, William Talmadge, *a w*	S.B. (*Yankton c.*) '05. Anatomy	Braymer, Mo.
Huguenin, Edith, *s*	Ph.B. (*u. of Chicago*) '01. Philosophy	Wilmette
Hurt, Arthur Curtis, *s*	A.B. (*u. of Nashville*) '03. Greek	Fort Worth, Tex.
Hurt, Huber William, *s*	S.B. (*Iowa Wesleyan u.*) '03. Philosophy	Oskaloosa, Ia.
Hyde, Emma, *s*	A.B. (*u. of Kansas*) '99. Mathematics	Iola, Kan.
Ichinohe, Naozo, *a w*	Rigakushi (*Imperial u.*) Astronomy	Hirosaki, Japan.
Imbs, Robert Francis, *a*	A.B. (*St. Louis u.*) '05. Chemistry	St. Louis, Mo.
Ingold, Louis, *a w*	A.B. (*u. of Missouri*) '01; A.M. (*Ibid.*) '02. Mathematics (*fel.*)	Columbia, Mo.
Ito, Jiniro, *a w*	Grad. (*Waseda u., Japan*) '03. Political Economy	Tokyo, Japan.
Jack, Alta Ella, *s*	A.B. (*Baylor u.*) '01. Greek	Waco, Tex.
Jackson, Dennis Emerson, *s*	A.B. (*Indiana u.*) '04. Physiology	Linton, Ind.
Jackson, George Pullen, *s*	Ph.B. (*u. of Chicago*) '04. German	Chicago
Jackson, Leila DeEtte, *a w*	A.B. (*Ripon c.*) '95. Anatomy, Physiology	Fond du Lac, Wis.
Jackson, Nell Elsie Louise, *s*	S.B. (*u. of Chicago*) '04. Botany, Zoölogy	Chicago
Jacobs, Edwin Elmer, *s*	Ph.B. (*Wooster u.*) '01. Botany, Geology	Sullivan, O.
Jacobson, Conrad, *w*	Ph.B. (*Beloit c.*) '00. Pathology	Chicago
Jacobson, Katherine, *s*	A.B. (*u. of Minnesota*) '02. Romance, German	Chicago
Jacobus, Elizabeth Bryan, *s*	L.B. (*Ottawa u.*) '92; Ph.M. (*Ibid.*). English, Romance, German	Ottawa, Kan.
Jamieson, William Duffem, *a*	L.B. (*Notre Dame u.*) '05. English	Chicago
Jardine, James Tertious, *s*	S.B. (*Agricultural c. of Utah*) '05. English	Logan, Utah
Jennings, William Silver, *s*	A.B. (*Ohio State u.*) '04. German	Eton, O.
Jensen, George Christian, *s*	A.B. (*Brigham Young c.*) '03. English	Logan, Utah
Jensen, Gerhard H., *s a w*	S,B. (*Cornell u.*) '99. Botany, Zoölogy	Chicago
Johnson, Alta, *a w*	Ph.B. (*u. of Colorado*) '93. Mathematics, Physics	Mooresville, Ind.
Johnson, Carman Cover, *s*	A.B. (*Juniata c.*) '01. History	Huntingdon, Pa.
Johnson, Clarence Edward, *s a w*	A.M. (*South Carolina c.*) '95. English	Union, S. C.
Johnson, Edward, *a w*	S.B. (*South Dakota Agricultural c.*) '02; A.M. (*u. of Nebraska*) '04. History, Political Science	Toronto, S. D.
Johnson, Elijah Newton, *s*	A.B. (*Drake u.*) 93; A.M. (*Ibid.*) '95. Mathematics, Astronomy	Indianapolis, Ind.
Johnson, Guy McKevitt, *a w*	A.B. (*u. of Michigan*) '05. Pathology, Anatomy	Middleville, Mich.
Johnson, Martha Frances, *a w*	A.B. (*u. of Wisconsin*) '05. Anatomy	Kokomo, Ind.
Johnson, Rachel, *s*	A.B. (*u. of Chicago*) '00. Latin, Greek	LaGrange, Mo.
Johnson, Virgie Graham, *s*	S.B. (*Baylor u.*) '96. English, History	Lancaster, Tex.
Johnston, Pliny Andrew, *s*	A.B. (*Cincinnati u.*) '01. History, Philosophy, English	Cincinnati, O.
Johnston, Samuel Carlisle, *s*	A.B. (*Colgate u.*) '84; A.M. (*Ibid.*) '87. Latin, Greek	Chicago
Johnstone, Ernest Marshall, *a w*	S.B. (*Pomona c.*) '04. Anatomy	San Dimas, Cal.
Jones, Anna Susan, *s*	A.B. (*u. of Michigan*) '89. Latin	Grand Rapids, Mich.
Jones, Ernest Scott, *s a*	A.B. (*Vanderbilt u.*) '97; A.M. (*Ibid.*) '98. Botany	Kansas City, Mo.
Jones, Roger Miller, *a w*	A.B. (*Denison u.*) '05. Greek, Latin	Newark, O.
Jones, Walter Philip, *s*	A.B. (*Emory c.*) '01. Psychology	Rome, Ga.
Jordan, Frank Craig, *a w*	Ph.B. (*Marietta c.*) '89; A.M. (*Ibid.*) '92. Astronomy, Mathematics (*fel.*)	Colorado Springs, Colo.
Kaufman, Agnes Joslyn, *s*	A.B. (*u. of Chicago*) '03. Geology	Chicago
Kelley, Edmund Levi, Jr., *s*	Ph.B. (*State u. of Iowa*) '03. Education, Mathematics	Lamoni, Ia.

NAME	DEGREE; DEPT. OF STTDY	HOME ADDRESS
Kellogg, Anna Allen, *s*	Ph.B. (*u. of Chicago*) '03. German	Peoria
Kendrick, Eva May, *a w*	A.B. (*Woman's c. of Baltimore*) '05. English, German	Columbus Junction, Ia.
Kennedy, Alfred, *s*	A.M. (*Queen's u.*) '01. Mathematics	Kingston, Can.
Kennedy, Benjamin, *s*	S.B. (*South Carolina Military acad.*) '01. History, English	Hartsville, S. C.
Kennedy, Mary Elizabeth, *s*	Ph.B. (*Oberlin c.*) '99; A.M. (*Ibid.*) '00. Botany	Oberlin, O.
Ketcham, Lilla McDonald, *a w*	A.B. (*Lake Erie c.*) '05. Romance	Indianapolis, Ind.
Kilbourne, Bessie Margaret, *s*	A.B. (*Doane c., Neb.*) '03. English, Romance	Lancaster, Wis.
Kildahl, Nilsine Johanna, *s a w*	A.B. (*u. of North Dakota*) '98; A.M. (*Ibid.*) '00. Botany	Masa, N. D.
Kilgore, Lizzie Selden, *w*	A.B. (*Kansas u.*) '03. English, History	Wichita, Kan.
Kimberly, Anna Maud, *a w*	A.B. (*Drake u.*) '02. English	Marshalltown, Ia.
Kimmons, John H., *s*	S.B. (*Drury c.*) '95; A.B. (*Harvard u.*) '98. Physics, Zoölogy	Chicago
King, James Sherman, *s*	A.B. (*Northwestern u.*) '01. German	Russell
King, Joseph Wood, *s*	S.B. (*Alabama Polytechnic inst.*) '98; S.M. (*Ibid.*) '99. English	Cusseta, Ga.
Kingsbury, Elizabeth, *s a w*	Ph.B. (*Buchtel c.*) '87; A.M. (*u. of Nebraska*) '04. German, Romance	Defiance, O.
Kirk, Edwin Garvey, *s*	S.B. (*u. of Chicago*) '02. Anatomy, Zoölogy (*fel.*)	Lima, O.
Kirkpatrick, Charles, *s*	A.B. (*Cornell c.*) '01. Physics, Chemistry	Spencer, Ia.
Kirtley, Charles Arthur, *s*	Ph.B. (*u. of Chicago*) '05. Geology	Chicago
Knott, Thomas Albert, *a w*	A.B. (*Northwestern u.*) '02. English	Chicago
Knowles, Frank Elwood, *s*	Ph.B. (*Drake u.*) '00. Mathematics	Norman, Okla.
Koch, Clara May Barbara, *s*	A.B. (*La Grange c.*) '03.	La Grange, Mo.
Korns, John Hamilton, *a w*	A.B. (*Ohio Wesleyan u.*) '04. Anatomy, Chemistry	Mt. Victory, O.
Korten, Josephine Ruth, *w*	S.B. (*u. of Chicago*) '02. Chemistry	Chicago
Kostomlatsky, Zulema, *s*	Ph.B. (*State u. of Iowa*) '95. Botany, Geology	Des Moines, Ia.
Krehbiel, Mary Billings, *w*	Ph.B. (*Dickinson c.*) '99. History, English	Chicago
Kroesch, Samuel, *s*	A.B. (*u. of Missouri*) '01. German, Latin	Edmond, Okla.
Kuhn, Albert, *s*	A.B. (*Northwestern u.*) '95. German, English	Watertown, Wis.
Kuntz, Albert, *s*	A.B. (*Charles City c.*) '04. Chemistry	Ridgeway, Ia.
Lagergren, Siegrid Anna, *s*	Ph.B. (*u. of Chicago*). '03. German	Morgan Park
Lakin, Mary Nickerson, *s*	Ph.B. (*u. of Chicago*) '99. English	Topeka, Kan.
Lambert, Lillian Vitaligne, *a w*	S.B. (*u. of Chicago*) '95. English	Des Moines, Ia.
Landacre, Francis Leroy, *s*	A.B. (*Ohio State u.*) '95. Zoölogy	Columbus, O.
Lantz, Willie Augusta, *s*	S.M. (*Catawba c.*) '97. Chemistry, Physics	Newton, N. C.
Lawrence, William Evans, *s a w*	S.B. (*Earlham c.*) '04. Botany, Zoölogy	Richmond, Ind.
Laygo, Pacifico, *s*	A.B. (*c. of San Juan de Letran, Manila*) '03. Pathology	Lipa, Batangas, P. I.
Le Duc, Alma de Lalande, *s*	Ph. B. (*u. of Chicago*) '99. Romance	Lawrence, Kan.
Lee, Alfred O., *a w*	M.D. (*u. of Berlin*) '98.	Chicago
Lee, Bertha Mary, *s*	Ph.B. (*Western Reserve u.*) '03. Physics	Cleveland, O.
Lee, Emmet Lehr, *a w*	Ph.B. (*Iowa c.*) 05. Anatomy	Grinnell, Ia.
Lees, James Henry, *a w*	A.B. (*Coe c.*) '01; S.M. (*Iowa c.*) '03. Geology, Paleontology	Cedar Rapids, Ia.
Leggett, Blanche Chipman, *s*	A.B. (*Smith c.*) '93. Romance	Cleveland, O.
Leigh, Lownes Randolph, *s*	A.B. (*National Normal u.*) '02. Chemistry	Paris, Tex.
Lewis, Blanche Martha, *s*	Ph.B. (*u. of Chicago*) '03. English	Sioux City, Ia.
Lewis, Winford Lee, *s*	A.B. (*Leland Stanford u.*) '02; A.M. (*u. of Washington*) '04. Chemistry	Gridley, Colo.
Libis, Metta Maud Miller, *s*	A.B. (*Oberlin c.*) '97. English	Chicago
Lincoln, Grace, *a w*	A.B. (*Lake Erie c.*) '04. History, English	Painesville, O.
Lindeblad, Carl G., *a w*	A.B. (*Augustana c.*) '04. Anatomy, Physiology	La Grange
Linthicum, Porter Hodge, *s a*	A.B. (*Yale u.*) '01. Anatomy, Physiology	Evansville, Ind.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Littlejohn, J. Martin, *a w*	LL.B. (*u. of Glasgow*) '92; A.M. (*Ibid.*) '99. Sociology	Chicago
Llewellyn, Elizabeth Valerie, *a w*	A.B. (*West Virginia u.*) '05. German, English	Chicago
Lloyd, Stewart J., *s*	A.B. (*u. of Toronto*) '04. Chemistry	Hamilton, Can.
Lobdell, Charles Walter, *a w*	S.B. (*Yale u.*) '05. Political Economy	Chicago
Loeb, Ludwig, *s*	S.B. (*u. of Chicago*) '96. Pathology	Chicago
Logan, Marie Rose, *a w*	A.B. (*Woman's c. of Baltimore*) '04. History, Sociology	Chicago
Long, William Hunt, *s a w*	A.B. (*Butler c.*) '03. Anatomy, Physiology	Indianapolis, Ind.
Lord Arthur Evarts, *a w*	Ph.B. (*u. of Chicago*) '04. Anatomy, Physiology	Plano
Lord, Florence, *a*	A.B. (*Smith c.*) '05. History	Chicago
Lowe, Ephraim Noble, *s*	S.B. (*u. of Mississippi*) '84. Geology	University, Miss.
Lowrey, Clara Ethel, *s*	A.B. (*u. of Chicago*) '05. English	Corning, Ia.
Lowrey, Mary Luella, *a w*	A.B. (*Des Moines c.*) '05. Latin, History	Corning, Ia.
Luehring, Fred William, *a w*	Ph.B. (*Northwestern c.*) '05. Sociology	Hanover, Kan.
Lussky, George Frederick, *a*	Grad. (*Concordia c. Ind.*) '05. Greek, Latin	Ottawa
Luther, Ethel May, *s*	A.B. (*u. of Kansas*) '01. English, German	Lawrence, Kan.
Lyon, Florence Leona, *a w*	A.B. (*u. of Chicago*) '01. German, English	Evanston
Lyons, Jessie May, *a w*	A.B. (*u. of Texas*) '95. English	El Paso, Tex.
McAllister, Jennie Roxa, *s*	A.B. (*Monmouth c.*) '94. Latin	Paxton
McBurney, Thomas Noble, *a w*	A.B. (*u. of Chicago*) '05. Romance	Chicago
McCain, James Ross, *s*	A.B. (*Erskine c.*) '00; LL.B. (*Mercer u.*) '01. English, History	Rome, Ga.
McClenahan, Francis Mitchell, *s*	A.B. (*Tarkio c.*) '96. Chemistry	Chicago
McClenahan, Robert Stewart, *a w*	A.B. (*Tarkio c.*) '93; A.B. (*Yale u.*) '96. Semitics	Chicago
MacClintock, Anna James, *s*	Ph.B. (*u. of Chicago*) '96. English	Millersburgh, Ky.
McCoy, Lulu, *s*	Ph.B. (*u. of Chicago*) '05. History	Chicago
McCoy, Nettie Irene, *a w*	L.B. (*u. of Wisconsin*) '99. Sociology	Rockford
McDonald, Howard, *s*	A.B. (*Muskingum c.*) '01; A.B. (*Princeton u.*) '02. Greek	New Concord, O.
McDonald, John Allen, *s*	A.B. (*McMaster u.*) '01; A.M. (*Ibid.*) '02. Latin, Greek	Canon City, Colo.
McDonald, Warren Thomas, *s a w*	A.B. (*William Jewell c.*) '00; A.M. (*Ibid.*) '01. Latin	Troy, Mo.
McGhee, Joseph Llewellyn, *s*	A.B. (*Hiwassee c.*) '93; A.M. (*Ibid.*) '96; A.B. (*Emory and Henry c.*) '03. Chemistry	Jackson, La.
McGloin, Laura Alice, *s*	S.B. (*Tulane u.*) '01; A.M. (*Ibid.*) '04. Botany	New Orleans, La.
McGrath, Edward, *a w*	Ph.B. (*u. of Wisconsin*) '02. Anatomy	Monroe, Wis.
Macgregor, Caroline Louise, *a*	A.B. (*u. of Toronto*) '05. English	Chippewa, Can.
McGrew, Mary Edith, *a w*	A.B. (*u. of California*) '03; A.M. (*Ibid.*) '05. Latin, Greek	Berkeley, Cal.
McGuire, Maria Ella, *s*	Ph.B. (*u. of Chicago*) '01. History	Chicago
McIntosh, John Stayer, *s*	A.B. (*Cornell c.*) '99. Greek, Latin	Fayette, Ia.
McMahon, Asher Reid, *a w*	A.B. (*Indiana u.*) '05. Anatomy, Physiology	Huntingberg, Ind.
McMurphy, Susannah Jane, *a w*	A.B. (*Vassar c.*) '03. English, German	Tacoma, Wash.
McMurray, Arthur, *a*	A.B. (*u. of Kansas*) '96. Public Speaking	Chicago
McMurtry, Tillman Ephraim, *a w*	S.B. (*u. of Chicago*) '00. Sociology	Chicago
McNeel, John Davidson, *s*	A.B. (*South Carolina c.*) '91; L.B. (*u. of Virginia*) '95. Mathematics	Talladega, Ala.
McNeill, Archie Thomson, *s*	A.B. (*McMaster u.*) '01. History, Education	Woodstock, Can.
Macpherson, Hector, *a*	A.B. (*Queen's u.*) '03. Sociology	Grand Valley, Can.
McVay, Bruce, *s*	A.B. (*Dakota Wesleyan u.*) '99. History	Woonsocket, S. D.
McWilliams, Nellie Louise, *s*	A.B. (*u. of Illinois*) '00; A.M. (*Ibid.*) '01. Romance	Champaign
Machetanz, Karl Adolph, *s*	A.B. (*Ohio Wesleyan u.*) '03. Political Science	Kenton, O.
Manley, Edward, *s*	A.B. (*Harvard u.*) '87; A.M. (*Ibid.*) '94. Geography, Geology	Chicago

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Manning, Priestly Hartwell, *s*	A.B. (*u. of Nashville*) '90; A.M. (*Ibid.*) '91. Geology	Nashville, Tenn.
Manwaring, Wilfred Hamilton, *s a*	S.B. (*u. of Michigan*) '95. Chemistry (*fel.*)	Ann Arbor, Mich.
Marquette, George John, *s*	A.B. (*u. of Wisconsin*) '04. Anatomy, Physiology	Madison, Wis.
Martin, Adelin, *a*	A.B. (*Leland Stanford u.*) '05. Romance	Amboy, Wash.
Martin, Charles Franklin, *a w*	A.B. (*William Jewell c.*) '04; A.M. (*Brown u.*) '05. English	Greenwood, Mo.
Martin, Cornelia Childress, *s*	A.B. (*u. of Washington*) '00; A.M. (*Ibid.*) '01. Philosophy	Nashville, Tenn.
Martin, James Victor, *a w*	Ph.B. (*Cornell c.*) '98. German, English	Mt. Vernon, Ia.
Martin, Lida Chenoweth, *s*	L.B. (*u. of Michigan*) '99. Mathematics	Decatur
Martin, Lois, s	A.B. (*Mississippi Industrial inst. and c.*) '98. History, Mathematics	Wesson, Miss.
Marx, Wanna Eiles, *s*	S.B. (*u. of Chicago*) '05. Zoölogy	Chicago
Mason, Ralph Leslie, *s*	S.B. (*Carleton c.*) '04. Physics	Spring Valley, Minn.
Matchett, Esther, *s*	A.B. (*u. of Michigan*) '01. Chemistry	Granville, O.
Matheson, John, *s*	A.M. (*Queen's u.*) '01. Mathematics	Kingston, Can.
Mathias, Mary Constance, *s a*	L.B. (*u. of Wisconsin*) '01. Romance	Chicago
Matlock, Alice Mary, *s*	A.B. (*Friend's u.*) '05. Chemistry, Physics	Central City, Neb.
Mathews, Charles Brooks, *s*	A.B. (*u. of Georgia*) '97; A.B. (*u. of Chicago*) '03. Latin	Griffin, Ga.
Matthews, James McClure, *s*	A.B. (*Park c.*) '03. Physics, Chemistry	Parkville, Mo.
Matthews, Patty Frances, *s*	A.B. (*u. of Nebraska*) '04. History, German, English	Auburn, Neb.
Matzinger, Philip Frederick, *a*	A.B. (*u. of Chicago*) '96. Sociology	Chicago
Maynard, Margaret Rebecca, *s*	A.B. (*Cornell u.*) '92. Latin, History	Canton
Mayr, Margaret Johanna, *s*	S.B. (*Northwestern u.*) '03. German	Chicago
Meek, Mary, *s*	A.B. (*Indiana u.*) '00. History, English	Elwood, Ind.
Meek, Walter Joseph, *s a w*	A.B. (*u. of Kansas*) '02. Neurology, Physiology	Oskaloosa, Ia.
Meentz, Walter Howard, *s*	S.B. (*Northwestern u.*) '94. Anatomy, Pathology	Ashkum
Meigs, Grace Lynde, *a w*	A.B. (*Bryn Mawr c.*) '03. Anatomy, Physiology	Keokuk, Ia.
Meinzer, Oscar Edward, *s a w*	A.B. (*Beloit c.*) '01. Geology, Chemistry	Davis
Merritt, Robert Norris, *s*	A.B. (*u. of Toronto*) '98. Mathematics	Goderich, Can.
Milbradt, Herman Gustav, *a w*	L.B. (*u. of Wisconsin*) '03. German, History	Edgar, Wis.
Miller, Catherine Ann, *a w*	A.B. (*u. of Chicago*) '03. English	Morristown, Tenn.
Miller, Clarence Heath, *s*	A.M. (*u. of Edinburgh*) '84; LL.B. (*u. of Texas*) '86. Sociology, Political Economy	Austin, Tex.
Miller, Eleanor Tibbets, *s*	A.B. (*u. of Nebraska*) '00; A.M. (*Ibid.*) '02. Mathematics	Lincoln, Neb.
Miller, Joseph Leggett, *s*	S.B. (*u. of Michigan*) '93. Chemistry	Chicago
Miller, Kate Belle, *a*	Ph.B. (*u. of Chicago*) '02. English	Chicago
Monsch, Genevieve Antoinette, *s*	S.B. (*u. of Chicago*) '02. Botany	Louisville, Ky.
Moodie, Roy Lee, *a w*	A.B. (*u. of Kansas*) '05. Paleontology, Geology (*fel.*)	Lawrence, Kan.
Moore, Sybil Jane, *w*	A.B. (*Vassar c.*) '01. English, Sociology	LeMars, Ia.
Moore, Stephen Halent, *s*	A.B. (*Vanderbilt u.*) '94. History, Political Economy	Georgetown, Tex.
Morey, Elizabeth Mary, *s*	A.B. (*u. of Texas*) '00. History	San Antonio, Tex.
Morris, Dona Irene, *s*	A.B. (*Kingfisher c., Okla.*) '—. Latin, Greek	Tonkawa, Okla.
Morrison, Edwin, *s*	S.B. (*Earlham c.*) '88; S.M. (*Ibid.*) 91. Physics, Chemistry	Oskaloosa, Ia.
Morrison, Elsie, *s*	S.B. (*u. of Chicago*) '05. Zoölogy	Milwaukee, Wis.
Morrison, Hugh Tucker, Jr., *s a w*	A.B. (*Drake u.*) '00. Anatomy, Chemistry	Springfield
Morrow, Hugh Ellis, *s*	S.B. (*u. of Arkansas*) '04. Chemistry	Fayetteville, Ark.
Morse, Edward Leland Clark, *s*	A.B. (*Harvard u.*) '77. History, Political Science	Chicago
Morse, Ernest Roswell, *s*	A.B. (*Acadia c.*) '87; A.B. (*Harvard u.*) '92. Mathematics	Kansas City, Mo.
Moseley, Alexander Willett, *s*	S.B. (*Massachusetts inst. Technology*) '91. Physics, Chemistry	Chicago

NAME	DEGREE ; DEPT. OF STUDY	HOME ADDRESS
Moudy, Ross Brockway, *s*	S.B. (*u. of Wyoming*) '00. Chemistry	Laramie, Wyo.
Muenchow, Julius William *w*	Grad. (*Concordia c.*) '02. Greek, Latin, Comparative Religion	Winthrop, Minn.
Mullay, Anna F., *a w*	Ph.B. (*Ohio State u.*) '87. English, Philosophy	Columbus, O.
Murphy, Eleanor, *a w*	Ph.B. (*u. of Chicago*) '05. Political Science, History	Chicago
Myers, Schuyler Rice, *a w*	A.B. (*Beloit c.*) '94; D.B. (*Yale u.*) '97. English	Polo
Myers, Walter Raleigh, *s*	Ph.B. (*Northwestern u.*) '03. Latin	Harvey
Nabours, Robert Kirkland, *s a w*	Ed.B. (*u. of Chicago*) '05. Zoölogy	Recknor, La.
Nahas, Selim, *a*	A.B. (*Sorbonne u.*) '02. Pathology	Alexandria, Egypt
Nash, William Percival, *s*	A.B. (*Colorado c.*) '01. Mathematics	Leadville, Colo.
Neidig, William Jonathan, *s*	A.B. (*Leland Stanford u.*) '96. English	Los Angeles, Cal.
Neilson, Allan Samuel, *s*	L.B. (*u. of Wisconsin*) '01. English	North Milwaukee, Wis.
Newell, Aaron, *s*	A.B. (*u. of Michigan*) '02. History, Education	Yale, Mich.
Newman, Henry Ware, *s*	A.B. (*McMaster u.*) '99. Pathology	Waco, Tex.
Nichol, Eda Belle, *w*	A.B. (*Westminster c.*) '98. Latin	Indiana, Pa.
Nichols, William Crane, *a w*	A.B. (*u. of Wisconsin*) '04. Physiology, Anatomy	Fargo, N. D.
Nicholson, George A., *s*	A.B. (*Baker u.*) '04; A.M. (*Ibid.*) '05. English.	Baldwin, Kan.
Niles, Edward, *s*	A.B. (*St. Ignatius c.*) '03. Physiology, Pathology	Chicago
Noble, Edith, *s*	Ph.B. (*DePauw u.*) '02. English	Mitchell, S. D.
Noble, Ellen Maria, *s*	A.B. (*Oberlin c.*) '94. Mathematics	Benton Falls, Me.
North, Alfred Myron, *a w*	S.B. (*Pacific u.*) '01. History, Political Science	Kist, Ore.
North, Cecil Clare, *w*	A.B. (*u. of Nebraska*) '02; D.B. (*u. of Chicago*) '05. Sociology, History	Bridgeport, Neb.
O'Connor, John Bartholomew, *s a*	A.B. (*Rochester u.*) '97. Latin, Greek	Indianapolis, Ind.
Ohrenstein, Eda Dianah, *s a*	Ph.B. (*u. of Chicago*) '00. German	Chicago
Ohrenstein, Valerie Deborah, *s a w*	Ph.B. (*u. of Chicago*) '04. English, Romance	Chicago
Oliver, Edward Allen, *a w*	A.B. (*Kenyon c.*) '05. Anatomy	Chicago
Owen, Charles Lorin, *a w*	A.B. (*Denison u.*) '85. Anthropology, Sociology	Chicago
Owens, Alpha Loretta, *s*	A.B. (*Kansas State u.*) '02; A. M. (*Ibid.*) '03. Romance	Lawrence, Kan.
Owens, Frederick William, *s*	S.B. (*u. of Kansas*) '02; S.M., (*Ibid.*) '02. Mathematics, Astronomy	Chicago
Owsley, Edna, *w*	A.B. (*Smith c.*) '03. English	Chicago
Page, George Washington, *s*	A.B. (*Bethel c.*) '99; A.M. (*Ibid.*) '99; A. M. (*Baylor u.*) '05. Philosophy, History, Education	Belleville, Tex
Paisley, Minnie McDonald, *s*	A.B. (*u. of Chicago*) '99. Latin, Greek	Hillsboro
Palmer, Lulu Margaret, *s*	A.B. (*Albion c.*) '99. English	Union City, Mich.
Parham, D'Arcy Paul, *a w*	A.M. (*Randolph Macon c.*) '91. English	Festus, Mo.
Parker, Carl Horace, *a w*	S.B. (*Pomona c.*) '05. Anatomy	Passadena, Cal.
Parker, Hortense Clement, *w*	A.B. (*u. of Chicago*) '05. History, English	Chicago
Parsons, Forest Lee, *a w*	A.B. (*u. of Wisconsin*) '05. Anatomy. Physiology	Berlin, Wis.
Partridge, Carroll Dunham, *s*	S.B. (*u. of Vermont*) '00. Chemistry, Physics	Burlington, Vt.
Partridge, William Harvey, *s*	A.B. (*Oberlin c*) '94. Greek, Latin	South Bend, Ind.
Passmore, Maud Sankey, *a w*	A.B. (*Leland Stanford u*) '04. Anatomy, Physiology	Chicago
Patet, Francois Joseph, *s a*	Bachelier es lettres (*Academy de Lyon, u of France*) '87. Romance	Chicago
Patterson, James, *w*	S.B. (*u. of Chicago*) '05. Astronomy	Chicago
Patterson, John Thomas, *s a w*	S.B. (*u. of Wooster*) '03. Zoölogy, Botany	Piqua, O.
Patterson, Lucy, *a w*	Ph.B. (*u. of Wooster*) '01. English	Piqua, O.
Pattison, Hortense Roberts, *a w*	A.B. (*u. of Colorado*) '03; A.M. (*Ibid.*) '04. Latin, Greek, (*fel.*)	Chicago
Patton, Eugene Bryan, *a w*	A.B. (*Washington u.*) '04. Political Economy, Political Science, (*fel.*)	Columbia, Tenn.
Peebles, Rose Jeffries, *s*	A.B. (*Mississippi Industrial inst. and c.*) '91. English	Columbus, Miss.
Peet, Charles Emerson, *s a w*	S.B. (*u. of Wisconsin*) '92. Geology, Chemistry	Chicago
Peet, Julia Dumke, *s*	Ph.B. (*u. of Chicago*) '98. German	Chicago

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
'egues, Albert Shipp, *s*	A.B. (*Wooford c.*) '92; A.M. (*Ibid.*) '95.	Georgetown, Tex.
'ellett, Sarah Frances, *s w*	A.B. (*Smith c.*) '82; A.M. (*Cornell u.*) '91. Latin	Binghamton, N. Y.
'erkins, Zella Isabel, *a w*	S.B. (*u. of Idaho*) '03. Chemistry	Moscow, Idaho.
'esta, Rose Alice, *s a w*	L.B. (*u. of Wisconsin*) '02; L.M. (*Ibid.*) '03. Mathematics	Chicago
'eters, Meta W., *s*	A.B. (*Western Reserve u.*) '96; A.M. (*Ibid.*) '98. German, Philosophy	Cleveland, O.
'eterson, Henry, *s*	Ph.B. (*u. of Chicago*) '05. Philosophy	Salt Lake, Utah.
'eterson, Isabel Alberta, *a w*	S.B. (*Lawrence u.*) '02. Chemistry, Physics	Fond du Lac, Wis.
'eterson, Joseph, *w*	S.B. (*u. of Chicago*) '05. Psychology, Neurology	Oakley, Idaho.
'ettinger, Peter James, *w*	A.B. (*Toronto u.*) '93; A.M. (*Harvard u.*) '94. Philosophy, Comparative Religion	Princeton, Can.
'feiffer, Wanda May, *s a w*	S.B. (*u. of Chicago*) '04. Botany	Chicago
'fuhl, Sophie Augusta, *s*	A.B. (*Bryn Mawr c.*) '00. Greek.	Harrisburg, Pa.
'hillips, Lena Blanche, *s*	A B. (*Cornell c.*) '03. History, English	Iowa Falls, Ia.
'iatt, Sarah Alice, *s*	A.B. (*u. of Kansas*) '04. Sociology	Lawrence, Kan.
'ierce, Edwin Griffin, *s*	Ph.B. (*Kalamazoo c.*) '02; Ph.B. (*u. of Chicago*) '02. Chemistry, Physics	Marcellus, Mich.
'iety, James C., *s*	A.B. (*Indiana u.*) '02. History	Chicago
'ike, Frank Henry, *s a w*	A.B. (*Indiana u.*) '03. Antomy, Physiology (*fel.*)	Plainfield
'ine, Frank Woodworth, *s*	A.B. (*u. of Michigan*) '94; A.M. (*New York u.*) '97. English	Pottstown, Pa.
'inney, Myra Finette, *a*	A.B. (*Wellesley c.*) '04. English Philosophy	Valparaiso, Ind.
'lum, Harley Martin, *s*	A.B. (*Ohio State u.*) '02. Chemistry	Ashville, O.
'oor, Vincent Collins, *s*	A.B. (*u. of Kansas*) '01. Mathematics, Astronomy	Oketo, Kan.
'ope, Ida May, *a w*	L.B. (*Oberlin c.*) '86. Sociology	Chicago
'orter, George Henry, *s*	Ph.B. (*Ohio State u.*) '01. History	New Philadelphia, O.
'orter, Marlow Rich, *s a w*	S.B. (*u. of Utah*) '99. Botany	Porterville
'ost, Helen Mirian, *a w*	S.B. (*Maryville c.*) '05. English	Maryville, Tenn.
'owell, Nellie Virginia, *s*	A.M. (*Randolph Macon Woman's c.*) '00. English	Woodview, Va.
'owell, Wade Hampton, *s*	S.B. (*u. of Chicago*) '05. Chemistry	Cuero, Tex.
'rentiss, Lois Ella, *a*	Ph.B. (*u. of Chicago*) '03. History	Chicago
'reston, Keith, *a w*	Ph.B. (*u. of Chicago*) '05. Latin	Chicago
'richard, Lucy Elizabeth, *s*	A.B. (*Vassar c.*) '99. Latin	Huntington, W. Va.
'roctor, Charles Albert, *s*	A.B. (*Dartmouth c.*) '00. Physics, Chemistry	Columbia, Mo.
'uaife, Milo Milton, *a w*	Ph.B. (*Iowa c.*) '03; A.M. (*u. of Missouri*) '05. History (*fel.*)	Nashua, Ia.
'agsdale, George Tilden, *s*	Ph.B. (*u. of Chicago*) '05. Political Science, Romance	DeKalb
'andolph, Harry Blaine, *s*	A.B. (*Hamline u.*) '04. Latin, Greek	Valley City, N. D.
'asor, Samuel Eugene, *s*	S.B. (*Ohio State u.*) '98; A.M. (*Ibid.*) '02. Mathematics	Columbus, O.
'attray, Jennie MacHardy, *s*	A.B. (*u. of Chicago*) '02. Greek	Chicago
'eddick, Harry Wilfred, *s*	A.B. (*Indiana u.*) '04.	Knightstown, Ind.
'eed, William John, *a w*	S.B. (*Northwestern u.*) '05. Geology, Paleontology	Glen View
'eedy, John Henry, Jr., *s*	A.M. (*Southwestern u.*) '00. Chemistry	San Marcos, Tex.
'ees, Kelley, *a w*	A.B. (*Leland Stanford u.*) '02. Greek, Latin, (*fel.*)	Fayetteville, Tenn.
'eid, Elizabeth, *s*	Ph.B. (*Wooster u.*) '99. Romance	Huron, S. D.
'eynolds, Welbourne Myers, *s*	A.B. (*u. of Georgia*) '03. English	Marietta, Ga.
'ice, Charles Donnell, *s*	S.B. (*Vanderbilt u.*) '91; S.M. (*Ibid.*) '92. Mathematics	Austin, Tex.
'ice, Corinne Lelia, *s a w*	Ph.B. (*u. of Chicago*) '99. History	Sullivan, O.
'ice, Emily Jane, *a*	Ph.B. (*u. of Chicago*) '03. History of Art	Chicago
'ichardson, Burt Parker, *s*	S.B. (*Drury c.*) '02; Ph.B. (*u. of Chicago*) '04. Chemistry	Greensboro, Ala.
'ichardson, Florence Ella, *a w*	A.B. (*u. of Nebraska*) '02. Education, Sociology, (*fel.*)	Lincoln, Neb.
'iddle, Oscar, *s*	S.B. (*Indiana u.*) '02. Zoölogy, Chemistry	Bloomfield, Ind.
'iggs, Mrs. Jean Shaefer, *a*	S.B. (*u. of Missouri*) '94. English	Chicago

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Riggs, Jeptha, *s*	A.B. (*u. of Missouri*) '03; A.M. (*Ibid.*) '04. English, Philosophy	Excelsior Springs, Mo.
Riley, Edgar Francis, *a w*	A.B. (*Baker u.*) '00. Philosophy, (*fel.*)	Baldwin, Kan.
Riley, Elmer Author, *s a w*	A.B. (*Baker u.*) '05. History, Political Economy	Baldwin, Kan.
Riley, Floyd, *a w*	A.B. (*u. of Missouri*) '04. Anatomy, Physiology	Kearney, Mo.
Riley, Jessika Trotter, *a*	Ph.B. (*Baylor u.*) '05. English	Waco, Tex.
Risser, Christian Hoffer, *s*	A.B. (*Franklin and Marshall c.*) '01. Anatomy, Chemistry	Filorin, Pa.
Ritchie, John Woodside, *s*	A.B. (*Maryville c.*) '98. Botany, Zoölogy, (*fel.*)	Sparta
Ritchie, Pearl Andrews, *s*	A.B. (*Maryville c.*) '01. Botany	Chicago
Roberts, Effie Elizabeth, *a w*	L.B. (*Northwestern u.*) '00. English	Wabash, Ind.
Roberts, Elizabeth, *s*	S.B. (*u. of Wisconsin*) '94. History	Hazel Green, Wis.
Roberts, Warren Huddleston, *s a*	A.B. (*Denison u.*) '03. Latin	St. Paris, O.
Robertson, James Reid, *a w*	A.B. (*Beloit c.*) '04. History, English	Chicago
Robertson, Jessie Thacher, *s*	A.B. (*St. Lawrence u.*). Latin	Canton, N. Y.
Robinson, Edna Moore, *a w*	A.B. (*u. of Chicago*) '04. English	Chicago
Robinson, Mayme Llewella, *a w*	L.B. (*Ohio Wesleyan u.*) '05. English	Sumner
Roe, Mabel Lewis, *a w*	A.B. (*Vassar c.*) '03. Latin, Greek	Chicago
Rogers, May Josephine, *s*	Ph.B. (*u. of Chicago*) '95. Latin	Chicago
Rosenberger, Homer Gladstone, *s a*	S.B. (*Penn c.*) '00. Chemistry, Physiology	Oskaloosa, Ia.
Rosholt, Albie Jens, *s a w*	A.B. (*Luther c.*) '03. Anatomy	Rosholt, Wis.
Ross, Elizabeth Ann, *s*	A.B. (*Fisk u.*) '03. Latin, German, Romance	Montgomery, Ala.
Ross, Mary Sophia, *s a w*	A.B. (*Dalhousie c.*) '94; A.M. (*Ibid.*) '96. Anatomy	Prince Edward Island, Ca
Ross, William Horace, *a w*	S.B. (*Dalhousie u.*) '03; S.M. (*Ibid.*) '04. Chemistry	Louisville, N. S.
Rosser, John Elijah, *s*	Ph.B. (*Emory c.*) '02. Philosophy, Sociology	Nashville, Ga.
Rowe, Alice Emily, *s*	A.B. (*Upper Iowa u.*) '91; A.M. (*Ibid.*) '94. Latin, Greek	Salt Lake, Utah
Rowe, Eugene Charles, *s*	A.B. (*Olivet c.*) '97. Philosophy, History	Evart, Mich.
Rowe, Jesse Perry, *s*	S.B. (*u. of Nebraska*) '97; S.M. (*Ibid.*) '03. Geology	Missoula, Mont.
Rowe, Mary Augusta, *s*	S.B. (*Beloit c.*) '98. Geology, Botany	Beloit, Wis.
Royster, James Finch, *a w*	A.B. (*Wake Forest c.*) '00. English, German (fel.)	Raleigh, N. C.
Ryan, Hannah Veronica, *s*	Ph.B. (*u. of Chicago*) '03. History	Chicago
Saam, John Gustave, *a w*	S.B. (*Lenox c.*) '00. Anatomy. Physiology	Lansing, Ia.
Sabin, Frances Ellis, *a w*	Ph.B. (*u. of Michigan*) '95; S.M. (*Ibid.*) '96. Latin, Greek	Chicago
Sachse, William Gustavus, *a w*	A.B. (*u. of Illinois*) '05. Anatomy, Neurology	Morris
Sanders, Nannie Gillespie, *s*	A.B. (*Southwestern u.*) '02. History, English	Georgetown, Tex.
Sanford, Frederick Warren, *s a w*	S.B. (*Illinois c.*) '90; A.B. (*Ibid.*) '94. Greek, Latin (*fel.*)	Jacksonville
Sato, Toru, *a w*	(*Wauseda u.*) '01. Philosophy	Iwateken, Japan
Sawyer, Mary Louise, *s*	S.B. (*Beloit c.*) '02. Botany	Oak Park
Scarborough, Dorothy, *s*	A.B. (*Baylor u.*) '96; A.M. (*Ibid.*) '99. English	Waco, Tex.
Schantz, Albert John, *s*	S.B. (*Ohio State u.*) '02. Physics, Chemistry	Dayton, O.
Scherz, Anna Talea, *s*	Ph.B. (*u. of Chicago*) '05. German	Chicago
Schmidt, Otto Gustave, *w*	A.B. (*Heidelburg u.*) '99. Philosophy, Political Economy, History	Chicago
Schultz, William Henry, *s*	Ph.B. (*Baldwin u.*) '99. Chemistry	Akron, O.
Schuster, Emma Marie, *s*	Ph.B. (*u. of Chicago*) '05. German	Chicago
Schweikert, Harry Christian, *s*	A.B. (*Princeton u.*) '03. English, Philosophy, Psychology	Reading, Pa.
Scott, Charles Carrington, *s*	A.B. (*Hampden-Sidney c.*) '88. Physics	Sherman, Tex.
Scott, Robert Douglas, *w*	S.B. (*Kansas State Agricultural c.*) '04. Botany, Geology	Marysville, Kan.
Senger, Harry Lech, *s*	A.B. (*u. of Cincinnati*) '98; A.M. (*Ibid.*) '05. Latin, Romance	Cincinnati
Severson, Samuel Ole, *s*	A.B. (*u. of Minnesota*) '03; A.M. (*Ibid.*) '04. Philosophy	Minneapolis, Minn.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
wall, Harriet, *s*	S.B. (*Fairmount c.*) '02; L.B. (*Ibid.*) '02. Physics, Botany	Wichita, Kan.
arp, Mary Emma, *a w*	A.B. (*Westminster c.*) '02; A.M. (*Ibid.*) '05. Romance	New Wilmington, Pa.
arpe, Richard Worthy, *w*	S.B. (*u. of Illinois*) '93; S.M. (*Ibid.*) '96. Zoölogy	Tiskilwa
attuck, Charles Houston, *s*	S.B. (*u. of Chicago*) '03. Botany	Topeka, Kan.
aw, Clara Hawthorne, *a*	A.B. (*Wellesley c.*) '97. Sociology	Lexington, Ky.
aw, Eugene Wesley, *s a w*	S.B. (*Ohio Wesleyan u.*) '05. Geology (*fel.*)	Delaware, O.
aw, Janet Parker, *s*	Ph.B. (*Oberlin c.*) '96. English	Indianapolis, Ind.
elford, Victor Ernest, *s a w*	S.B. (*u. of Chicago*) '03. Zoölogy, Botany	Lowman, N. Y.
epherd, John Wilkes, *s*	A.B. (*Indiana u.*) '96; A.M. (*Ibid.*) '98. Chemistry	Chicago
imer, Will, *s*	A.B. (*Butler c.*) '02. Physiology, Pathology	Wanamaker, Ind.
ouse, John Lomar, *s*	A.B. (*William Jewell c.*) '95; A.M, (*Ibid.*) '96. English	Kansas City, Mo.
river, Mabel Angela, *s*	A.B. (*Heidelberg u., Ohio*) '99; A.M. (*Ibid.*) '00. Chemistry, Physics	Hamilton, O.
ull, Charles Albert, *s a w*	S.B. (*u. of Chicago*) '05. Zoölogy (*fel.*)	New Carlisle, O.
umaker, Varney Verne, *s*	S.B. (*Rio Grande c.*) '03. Latin	Terrel, Tex.
nonds, James Persons, *s*	A.B. (*Baylor u.*) '01. Physiology, Anatomy	Kesons, Tex.
nons, Mrs. May Wood, *w*	Ph.B. (*u. of Chicago*) '05. Sociology	Melrose Park
npson, Benjamin Roy, *a w*	A.B. (*McMaster u.*) '99. Psychology, Sociology	Niagara Falls, Can.
ns, Harry Wilbur, *a w*	S.B. (*Muskingum c.*) '04. Anatomy, Physiology	New Concord, O.
on, Antonio G,, *s*	A.B. (*San Juan de Letran, Manila*). Physiology	Pangasiman, P. I.
elton, Oscar Douglas, *a w*	A.M. (*Queens u.*) '99. Political Economy, Latin	Cornwall, Can.
inner, Charles Everest, *s*	L.B. (*u. of Michigan*) '96. English	Louisville, Ky.
ight, George Newton, *a*	A.B. (*Williams c.*) ,93. Greek, Latin	Elgin
alley, Archibald Whittier, *s*	A.B. (*u. of Michigan*) '98. Latin	Chicago
art, Frank Leroy, *s*	A.B. (*Harvard u.*) '96. English	Dubuque, Ia.
art, Walter Kay, *w*	Ph.B. (*u. of Chicago*) '02. English, German	Payson
ith, Alexander W., *s a w*	A.B. (*Dalhousie u.*) '95; A.M. (*Princeton u.*) '98. English, History	Hopkinton, Ia.
ith, Charlotte Dillingham, *w*	Ph.B. (*u. of Chicago*) '02. Political Science	Chicago
ith, Cornelia Simrall, *w*	S.B. (*u. of Chicago*) '03. Geology	Chicago
ith, Elizabeth, *s*	A.M. (*Howard Payne c.*) '94. Mathematics	Lexington, Mo.
ith, Fanny, *s*	S.B. (*Miami u.*) '00. Chemistry, Botany	Sandrun, Ky.
ith, Myra Virginia, *s*	A.B. (*u. of Chicago*) '02. German, Romance	Springfield
ith, Samuel Sterrett, *s*	A.B. (*Indiana u.*) '02. Zoölogy, Botany	Beaver Falls, Pa.
ith, Warren Brownell, *a*	Ph.B.(*u. of Chicago*) '02. History	Chicago
yder, Ruth Dickerson, *a w*	A.B. (*Miami u.*) '04. English	Liberty, Ind.
gard, John, *a*	Ph.B. (*Iowa State u.*) '99. Sociology, Education	Vinton, Ia.
nna, Agatha Jean, *s*	A.B. (*Wellesley c.*) '99; A.M. (*Columbia u.*) '03. English	Boise, Idaho
ahr, Herman Louis, *s*	A.B. (*South Carolina c.*) '95. German	Columbia, S. C.
alding, Aileen, *s*	A.B. (*u. of Chicago*) '04. Greek, Latin	Terre Haute, Ind.
eidel, Ida Theresia, *a*	S.B. (*State u. of Iowa*) '03; S.M. (*Ibid.*) '04. Mathematics	Iowa City, Ia.
eidel, William Charles, *a w*	A.B. (*u. of Washington*) '04. Anatomy, Physiology	Seattle, Wash.
eik, Frederick Adolph, *s*	S.B. (*u. of Chicago*) '05. Pathology	Chicago
ence, William John, *s*	A.B. (*u. of Toronto*) '00. German, Romance	Winnipeg, Can.
encer, Matthew Lyle, *a w*	A.B. (*Kentucky Wesleyan c.*) '03; A.M. (*Ibid.*) '04; A.M. (*Northwestern u.*) '05. English, German (*fel.*)	Atlanta, Ga.
ink, Josette Eugenie, *s*	Ph.B. (*u. of Chicago*) '04. Romance	Chicago
ooner, Charles Cutler, *s*	A.B. (*Amherst c.*) '96. Physics	Salt Lake, Utah
ahl, George Gettys, *s*	A.B. (*Wooster u.*) '99. Physics, Chemistry	Middletown, O.
aley, George Cooper, *a*	A. B. (*u. of Chicago*) '05. Mathematics, Astronomy	Dade City, Fla.
arbird, Robert Stinson, *s*	A.B. (*u. of Chicago*) '03. English	Chicago
ark, Herbert Cholet, *a*	A.B. ( ) '05. Anatomy, Physics	Bluffton, Ind.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Stearns, Tilden Hendricks, *s*	A.B. (*Brown u.*) '03. Political Science, Political Economy	Wilmot, N. H.
Stephens, George Asbury, *s*	A.B. (*Baker u.*) '99. Sociology	Topeka, Kan.
Stephens, Thomas Calderwood, *s a w*	(*Duquesne c., Adrian c.*) Zoölogy, Chemistry (*fel.*)	Kansas City, Kan.
Stewart, Gertrude, *s*	A.B. (*u. of Denver*) '04. English, History	Denver, Colo.
Stiles, Harold, *s*	Ph.B. (*Kenyon c.*) '96; A.B. (*Harvard u.*) '03; A.M. (*Ibid.*) '04. Mathematics, Physics	Evanston
Stilwell, Katherine Marion, *s*	Ph.B. (*u. of Chicago*) '03. Education	Chicago
Stine, Charles M., *s*	A.B. (*Pennsylvania c.*) '01; S.B. (*Ibid.*) '03; A.M. (*Ibid.*) '04. Chemistry	Mechanicsburg, Pa.
Stocker, John Eugene, *s*	S.B. (*Lehigh u.*) '95. Mathematics, Astronomy	Bethlehem, Pa.
Stokes, Ella Harrison, *s*	S.B. (*Ohio Wesleyan u.*) '99. Philosophy	Oskaloosa, Ia.
Stokes, Merle Benefiel, *a w*	A.B. (*Wabash c.*) '05. Anatomy, Chemistry	Lebanon, Ind.
Stokey, Alma Gracey, *s*	A.B. (*Oberlin c.*) '05. Botany	Oberlin, O.
Stoner, Sanford Leland, *s*	S.B. (*u. of Chicago*) '04. Physics, Chemistry	Pulaski, O.
Stout, Selatie Edgar, *s a*	A.B. (*William Jewell c.*) '01. Latin, Greek	Chillicothe, Mo.
Strauss, Harry Huntington, *s*	A.B. (*Wooster u.*) '04. Latin, History	Orrville, O.
Strawn, Myra Hartshorn, *a w*	A.B. (*u. of Chicago*) '00. English	Chicago
Strickland, Henry Kinshen, *s*	A.B. (*Louisiana State u.*) '98; A.B. (*Ibid.*) '99. English	Baton Rouge, La.
St. Sure, Frank Adolph, *s a w*	S.B. (*u. of Wisconsin*) '03. Anatomy, Physiology	Madison, Wis.
Summers, Joseph, *s*	A.B. (*William Jewell c.*) '99; A.M. (*u. of Missouri*) '01. Chemistry, Physiology	Coffeybury, Mo.
Sundell, Cora Josephine, *s*	Ph.B. (*Cornell c.*) '00. English	Mason City, Ia.
Sundwall, John, *s a w*	Ph.B. (*Central u. of Utah*) '01; S.B. (*u. of Chicago*) '05. Anatomy, Physiology (*fel.*)	Fair View, Utah.
Swan, George Dempster, *w*	S.B. (*u. of Wisconsin*) '05. Biblical Greek	Clinton, O.
Swanson, William Walker, *a w*	A.M. (*Queens u.*) '05. Political Economy (*fel.*)	Oshawa, Can.
Swift, Charles Henry, *a w*	A.B. (*u. of Chicago*) '03. Anatomy	Chicago
Sylvester, Mrs. Alice Peirce, *a*	A.B. (*u. of Chicago*) '98. English	Sacremento, Cal.
Tackaberry, Wilson Hamilton, *s*	A.B. (*u. of Toronto*) '04; A.M. (*Ibid.*) 05. Greek, Latin	Kemptville, Can.
Taggart, Anna, *s*	A.B. (*Shurtleff c.*) '91; A.M. (*Ibid.*) '98. Latin	Upper Alton
Taintor, Jesse Fox, *s*	A.B. (*Ripon c.*) '73. History	Elkhorn, Wis.
Takahashi, Katashi, *s a w*	(*Imperial u. of Japan*) '01. Neurology	Tokyo, Japan
Talbert, Ernest Lynn, *s*	A.B. (*Butler c.*) '01; A.B. (*u. of Chicago*) '01. Psychology, Philosophy, Sociology	Indianapolis, Ind.
Tannreuther, George Washington, *s*	A.B. (*Manchester c.*) '00; A.M. (*Antioch c.*) '01. Zoölogy	New Carlisle, O.
Temple, Frances Congdon, *s w*	Ph.B. (*u. of Chicago*) '02. Philosophy, Political Economy	Chicago
Templin, William Henry, *s*	S.B. (*DePauw u.*) '97. Mathematics	Kansas City, Mo.
Terry, Benjamin Taylor, *s a*	A.B. (*Vanderbilt u.*) '98; A.M. (*Ibid.*) '00. Anatomy (*fel.*)	Ann Arbor, Mich.
Terry, Schuyler Baldwin, *s*	A.B. (*u. of Chicago*) '05. Romance, German	Chicago
Test, Louis Agassiz, *s*	B.M.E. (*Purdue u.*) '94; A.C. (*Ibid.*) '96. Chemistry	Lafayette, Ind.
Thiessen, Reinhardt, *a w*	S.B. (*u. of Chicago*) '02. Botany, Zoölogy	New Holstein, Wis.
Thomas, Roy, *s*	S.B. (*Pomona c.*) '03. Anatomy, Physiology	Phoenix, Ariz.
Thomas, Sarah Jane, *s*	A.B. (*u. of Wisconsin*) '97. English	Pewaukee, Wis.
Thomasson, Arthur Albert, *s*	A.B. (*Hiwasse c.*) '01; A.M. (*Ibid.*) '05. Philosophy, Sociology	Gudger, Tenn.
Thompson, Andrew Newton, *s*	Ph.B. (*Colorado c.*) '00. Education	Colorado Springs, Colo.
Thompson, Christiana, *s*	Ph.B. (*Otterbein u.*) '90. English	Frankfort, Ind.
Thompson, Mary Penn, *s*	A.B. (*u. of Nashville*) '01. English, Botany, Geology	Pensacola, Fla.
Titsworth, Paul Emerson, *s*	Ph.B. (*Alfred u.*) '04. German	Alfred, N. Y.
Todd, David Duke, *w*	S.B. (*Coe c.*) '05. Physiological Chemistry	Ida Grove, Ia.
Todd, Theodore Walter, *s*	A.B. (*Monmouth c.*) '88; A.M. (*Ibid.*) '90; LL.B. (*u. of Michigan*) '91. Romance, German	Topeka, Kan.
Tomkies, Charles Doswell, *s*	A.B. (*Tulane u.*) '01; A.M. (*Columbia u.*) '04. English	Cameron, Tex.
Tonney, Frederick Oscar, *s*	A.B. (*u. of Chicago*) '04. Chemistry	Fort Scott, Kan.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Torrey, Nellie, *s*	A.B. (*Indiana u.*) '98. Latin, English, German	Greenwood, Miss.
Touton, Frank Charles, *s*	Ph.B. (*Lawrence u.*) '01. Mathematics	Edgerton, Wis.
Townsend, Henry Schuler, *a w*	A.B. (*Des Moines c.*) '80. Sociology, Psychology	Manila, P.I.
Trever, Albert Augustus, *s*	Ph.B. (*Lawrence u.*) '96; S.T.B. (*Boston u.*) '00. Greek	Horicon, Wis.
True, Blanche Lucinda, *s*	A.B. (*Wellesley c.*) '02. Greek, Romance	Fargo, N.D.
True, Glenn E., *a*	A.B. (*Albion c.*) 04. Chemistry, Physics	Dowagiac, Mich.
Tupper, Beatrice, *s*	A.B. (*Lake Forest u.*) '99. Mathematics	Litchfield
Turner, Bertha Lowe, *a w*	Ph.B (*Iowa c.*) '98. English	Oskaloosa, Ia.
Turner, James Jesse, *s*	Ph.B. (*Hiram c.*) '02. Chemistry, Physics	Hiram, O.
Twiss, Edith Minot, *s*	A.B. (*Ohio State u.*) '95. Botany, Zoölogy	Cleveland, O.
Tyree, Joseph Edgar, *a w*	A.B. (*u. of Oregon*) '00. Anatomy, Pathology (*fel.*)	Salt Lake, Utah
Unnewehr, George Louis, *s*	Ph.B. (*Franklin c.*) '04. German	Newpoint, Ind.
Von Unwerth, Frida, *s*	Ph.B. (*u. of Chicago*) '03. German	Kansas City, Mo.
Usher, George Ephraim, *s*	A.B. (*u. of Georgia*) '00. Latin, English	Summit, Ga.
Vance, Cecil Edgar, *s a w*	A.B. (*Wilmington c.*) '90; A.M. (*Ibid.*) '91. Greek	Toledo, O.
Vance, Mildred, *s*	A.B. (*Doane c.*) '00. History, Education	Crete, Neb.
Van Doozer, Theodosia Kane, *w*	Ph.B. (*u. of Chicago*) '97. English	Chicago
Van Landingham, Henry Asa, *s*	A.B. (*Mississippi c.*) '93. English	Macon, Ga.
Van Meter, Mrs. Jessie Florence Bigelow, *a*	A.B. (*u. of Nebraska*) '95. German	Chicago
Van Nostrand, John James Jr., *w*	A.B. (*u. of Chicago*) '05. History, Greek, Latin	Chicago
Vass, James Leland Jr., *s a w*	A.M. (*Furman u.*) '04. Greek, Latin (*fel.*)	Chicago
Vaughn, Charles Walter, *s*	A.B. (*u. of Chicago*) '00. German, Romance	Covington, Tenn.
Vick, Margaret Julia, *s*	S.B. (*Wilson c.*) '97. Zoölogy, Physiology	Edgeworth, Pa.
Vivian, William Albert, *s*	L.B. (*u. of Wisconsin*) '02. History	Superior, Wis.
Von Eschen, Florian, *s a w*	Ph.B. (*Simpson c.*) '98; Ph.M. (*Ibid.*) '99. Chemistry, Physics	Shelby, Ia.
Voorhees, Emelyne Smith, *s*	S.B. (*Knox c.*) '98. Romance, English	Washington
Wadsworth, Heilman Curtis, *a w*	A.B. (*Indiana u.*) '02. Anatomy	Washington, Ind.
Walker, Clara, *s*	S.B. (*u. of Chicago*) '01. Geology	Chicago
Walker, John Scott, *s*	A.B. (*u. of Virginia*) '02; A.M. (*Ibid.*) '02. Mathematics	Orange, Va.
Wallace, Brice Russell, *a w*	S.A. (*Albany c.*) '04. Anatomy	Albany, Ore.
Wallace, Carl E., *s*	A.B. (*u. of Kansas*) '96; A.M. (*Ibid.*) '97. History, Political Science	Hiawatha, Kan.
Wallace, Sarah Emma, *w*	S.B. (*u. of Chicago*) '97. Physics, Geology	Chicago
Walshe, Frances Louise, *a w*	Ph.B. (*u. of Chicago*) '00. English, History, Latin	Chicago
Ware, Mrs. Elizabeth Luella, *s*	Ph.B. (*u. of Chicago*) '04. History, English	Eaton
Warren, Henry Kimball, *s*	A.B. (*Olivet c.*) '82; A.M. (*Ibid.*) '85; LL.D. (*Ibid.*) '02. Political Economy, Sociology	Yankton, S.D.
Warvelle, Effie Bangs, *a w*	Ph.B. (*u. of Chicago*) '02. English	Chicago
Washburn, James Murray, *s*	A.B. (*Harvard u.*) '95. Pathology	Chicago
Waterhouse, Alfred Herbert, s	A.B. (*Princeton u.*) '02. Physiology	Pasadena, Cal.
Watson, John Brown, *s*	Ph.B. (*Brown u.*) '04. Physics, Chemistry	Atlanta, Ga.
Watson, Rachel Hammond, *s*	A.B. (*u. of Kansas*) '98. Latin, English	Lawrence, Kan.
Wayman, Agnes Rebecca, *a w*	A.B. (*u. of Chicago*) '03. Physiology	Chicago
Webb, Reuben David, *s*	S.B. (*Alabama Polytechnic inst.*) '97; S.M. (*Ibid.*) '98. English	Auburn, Ala.
Webster, Edgar Huidekoper, *s*	A.M. (*Atlanta u.*) '97; S.B. (*u. of Chicago*) '05. Geology, Chemistry	Atlanta, Ga.
Weidensall, Clara Jean, *s w*	A.B. (*Vassar c.*) '03. Philosophy (*fel.*)	Chicago
Weinberger, Carl Frederick, *s a w*	A.B. (*u. of Chicago*) '99. Anatomy, Physiology	Blue Earth, Minn.
Wells, Mary Evelyn, *a w*	A.B. (*Mt. Holyoke c.*) '04. Mathematics, Astronomy	Naugatuck, Conn.
Wells, Ruth, *s*	A.B. (*Vassar c.*) '00; A.M. (*Ibid.*) '01. Latin	Chicago
Wescott, Frank Howard, *a w*	A.B. (*u. of Chicago*) '97. Physics, Mathematics	Lacon

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Wheeler, Clara Kingswell, *w*	Ph.B. (*u. of Chicago*) '05. English	Minneapolis, Minn.
Wheeler, Perry MacDowell, *s*	S.B. (*Bellevue c.*) '04. Education	South Omaha, Neb.
Wheeler, Ruth, *s*	A.B. (*Vassar c.*) '99. Chemistry	Pittston, Pa.
Whitcomb, Walter Delos, *a w*	S.B. (*Wheaton c.*) '05. Anatomy, Chemistry	Chicago
White, Adeline Ranson, *s a w*	L.B. (*u. of Wisconsin*) '99. Chemistry, Anatomy	Chicago
White, Alfred Everett, *s*	S.B. (*Purdue u.*) '04. Mathematics	Liberty, Ind.
White, John Boyd, *s*	A.B. (*Geneva c.*) '85; A.M. (*Ibid.*) '88. Greek, Latin	Annapolis, Md.
White, LeRoy Branch, *s*	A.B. (*u. of Chicago*) '03. Mathematics	Kalamazoo, Mich.
Whitman, Roscoe, *s*	A.B. (*u. of Wisconsin*) '04. Anatomy, Pathology	Dodgeville, Wis.
Wiggins, Robert Samuel, Jr., *s*	A.B. (*Emory c.*) '03. English	Lumpkin, Ga.
Wild, Payson Sibley, *a w*	A.B. (*Williams c.*) '91. Latin, Greek	Chicago
Wilkins, Lewanna, *s*	S.B. (*Wellesley c.*) '91; Botany, Zoölogy	Washington, D. C.
Willard, Lilian Winifred, *s*	A.B. (*u. of Denver*) '99. English	Denver, Colo.
Williams, Cora, *s*	Pd.B. (*State c. of Kentucky*) '02; S.M. (*Ibid.*) '03. Botany	Lexington, Ky.
Williams, Edward Marsh, *s*	S.B. (*u. of Chicago*) '02. Pathology	LaGrange
Williams, Joseph Asler, *s*	A.B. (*Washington u*) '02; A.M. (*u. of Nebraska*) '03. German	St. Louis, Mo.
Williams, Joseph Dean *s*	A.B. (*u. of Nashville*). History, English	Natasulga, Ala.
Williamson, Edward John, *a w*	A. B. (*Queens u.*) '98; A.M. (*Ibid.*) '00. German, Romance	Kingston, Can.
Wilson, Albert Miller, *s*	A.B. (*Indiana u.*) '00: A.M. (*Ibid.*) '03. Mathematics	St. Louis, Mo.
Wilson, Eugene Alonzo, *a w*	A.B. (*Mt. Hope c*) '98; A.M. (*Ibid.*) '99. Political Science, Political Economy, Sociology	Benton Harbor, Mich.
Wilson, James Meredith, *s*	Ph.B (*Cornell u.*) '80. Chemistry	St. Louis, Mo.
Winchester, George, *s a w*	S.B. (*u. of Chicago*) '03. Physics, Chemistry	Elmore
Witbeck, Alice, *s*	L.B. (*Swarthmore c.*) '98. Romance, German	Belvidere
Woodworth, Arthur Heath, *a w*	A.M. (*Lafayette c.*) '04. English, Philosophy	Sayn, Pa.
Woolbert, Charles Henry, *s*	A.B. (*Northwestern u.*) '00. English	Albion, Mich.
Wort, Julia Minot, *s*	A. B. (*u. of Nebraska*) '97. History	Lincoln, Neb.
Wreidt, Ernest August, *s w*	Ph.B. (*Kalamazoo c.*)'00; A.B. (*u. of Chicago*) '03. Education	Morgan Park
Wright, Alexander Holland, *s*	A.B. (*Washington and Jefferson c.*); A.M. (*Ibid.*) Chemistry, Zoölogy	New Concord, O.
Wright, Wilbur Hoyt, *s*	A.B. (*u. of Illinois*) '96. Chemistry, Pathology	Fort Dodge, Ia.
Wurster, Anna Marie, *s*	S.B. (*Purdue u.*) '03; S.M. (*Ibid.*) '04. Romance	Lafayette, Ind.
Wylie, Lulu Ethel, *a w*	Ph.B. (*Hamline u.*) '03. Sociology	Drayton, N. D.
Yamanouchi, Shigeo, *a w*	S. M. (*Teachers c., Tokyo*) '93. Botany (*fel.*)	Tokyo, Japan
Yoakum, Clarence Stone, *a w*	S.B. (*Campbell c.*) '01; A.B (*Ibid.*) '02. Philosophy, English	Basehow, Kansas
Yoder, Orie Chris, *a w*	Ph.B. (*u. of Wooster*) '05. Anatomy, Pathology	Weilersville, O.
Yoshioka, Ghen-ichiro, *a w*	Ph.B. (*Northwestern u.*) '02. Sanskrit, German, Greek (*fel.*)	Okayama, Japan
Young, May Sophie, *s*	A.B. (*Wellesley c.*) '95. Botany, Geology	Kansas City, Kan.
Youngman, Anna Pritchett, *a w*	Ph.B. (*u. of Chicago*) '04. Political Economy (*fel.*)	Louisville, Ky.
Zipf, Ferdinand Joseph, *s*	A.B. (*u. of Illinois*) '02. Philosophy	Peotone
Zurawski, Frances Catherine, *s*	S.B. (*u. of Chicago*) '04. Mathematics, Geology	Chicago

MEN — 529. WOMEN — 323. TOTAL — 852.

SUMMARY

	Men	Women	Total
I. Doctor of Philosophy pursuing special courses	12	5	17
II. Students admitted to candidacy for higher degrees	112	38	150
III. Students not yet admitted to candidacy for higher degrees	529	323	852
Total	653	366	1019

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07/08

The University of Chicago
FOUNDED BY JOHN D. ROCKEFELLER

CIRCULAR OF INFORMATION

FOR THE YEAR 1907–1908

VOL. VII MARCH, 1907 NO. 2

The Departments of Arts, Literature, and Science

THE GRADUATE SCHOOLS

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PUBLISHED FOUR TIMES A YEAR
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THE UNIVERSITY OF CHICAGO
FIFTY-EIGHTH STREET AND ELLIS AVENUE
CHICAGO, ILL.

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The University of Chicago
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CIRCULAR OF INFORMATION

FOR THE YEAR 1907–1908

VOL. VII MARCH, 1907 NO. 2

The Departments of Arts, Literature, and Science

THE GRADUATE SCHOOLS

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CALENDAR FOR THE YEAR 1907–8

THE MEETINGS OF THE BOARD OF TRUSTEES ARE HELD ON THE SECOND TUESDAY OF EACH MONTH

1907

June 7	Friday	Junior College Day
June 8	Saturday	Alumni Day
June 10	Monday	Class Day
June 11	Tuesday	The Summer Convocation
June 12	Wednesday	Quarterly Examinations
June 13	Thursday	
June 14	Friday	
June 14	Friday	Spring Quarter ends
June 15	Saturday	Summer Quarter begins
July 4	Thursday	Independence Day: a holiday
July 24	Wednesday	Examinations for the First Term of the Summer Quarter First Term of Summer Quarter ends
July 25	Thursday	Second Term of Summer Quarter begins
August 30	Friday	Examinations for Second Term of the Summer Quarter The Autumn Convocation Second Term of Summer Quarter ends
Oct. 1	Tuesday	Autumn Quarter begins
Nov. 28	Thursday	Thanksgiving Day: a holiday
Dec. 17	Tuesday	The Winter Convocation
Dec. 18	Wednesday	Quarterly Examinations
Dec. 19	Thursday	
Dec. 20	Friday	
Dec. 20	Friday	Autumn Quarter ends

1908

Jan. 2	Thursday	Winter Quarter begins Matriculation and Registration of incoming students
Feb. 12	Wednesday	Lincoln's Birthday: a holiday
Feb. 22	Saturday	Washington's Birthday: a holiday
Mar. 15	Sunday	Convocation Sunday
Mar. 16	Monday	Spring Meeting of the *University Congregation*
Mar. 17	Tuesday	Spring Convocation
Mar. 18	Wednesday	Quarterly Examinations
Mar. 19	Thursday	
Mar. 20	Friday	
Mar. 20	Friday	Winter Quarter ends
Mar. 20–31		Quarterly Recess
April 1	Wednesday	Spring Quarter begins Matriculation and Registration of incoming students
May 30	Saturday	Memorial Day: a holiday
June 5	Friday	Junior College Day
June 6	Saturday	Alumni Day
June 8	Monday	Class Day Summer Meeting of the *University Congregation*
June 9	Tuesday	The Summer Convocation
June 10	Wednesday	Quarterly Examinations
June 11	Thursday	
June 12	Friday	
June 12	Friday	Spring Quarter ends

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1907/08

THE GRADUATE SCHOOLS

OFFICERS OF ADMINISTRATION

OFFICERS OF ADMINISTRATION

The President of the University, HARRY PRATT JUDSON, *Haskell Museum*, First Floor, Room 10.

The University Recorder, ALONZO KETCHAM PARKER, *Haskell Museum*, First Floor, Room 11.

The University Chaplain, CHARLES RICHMOND HENDERSON, *Cobb Lecture Hall*, First Floor.

The University Registrar, THOMAS WAKEFIELD GOODSPEED, *The Press Building*, First Floor.

The Secretary to the President, DAVID ALLAN ROBERTSON, *Haskell Museum*, First Floor, Room 10.

The Dean of the Graduate School of Arts and Literature, ALBION WOODBURY SMALL, *Haskell Museum*, First Floor, Room 14.

The Dean of the Ogden (Graduate) School of Science, ROLLIN D. SALISBURY, *Haskell Museum*, First Floor, Room 14.

The Dean of Women, MARION TALBOT, *Cobb Lecture Hall*, First Floor, Room 9.

THE FACULTY*

Members of the Faculties of Arts, Literature and Science giving instruction in the Graduate Schools are the following:

HARRY PRATT JUDSON, A.M., LL.D., *President of the University; Professor of Comparative Politics and Diplomacy, and Head of the Department of Political Science.*

THOMAS CHROWDER CHAMBERLIN, PH.D., LL.D., *Professor and Head of the Department of Geology; Director of Museums.*

CHARLES OTIS WHITMAN, PH.D., LL.D., *Professor and Head of the Department of Zoölogy; Curator of the Zoölogical Museum* (Wood's Holl).

HEINRICH MASCHKE, PH.D., *Professor of Mathematics.*

RICHARD GREEN MOULTON, PH.D., *Professor of Literary Theory and Interpretation and Head of the Department of General Literature.*

JOHN MERLE COULTER, PH.D., *Professor and Head of the Department of Botany.*

WILLIAM GARDNER HALE, A.B., LL.D., *Professor and Head of the Department of Latin.*

CHARLES RICHMOND HENDERSON, PH.D., D.D., *Professor of Sociology; University Chaplain.*

CHARLES CHANDLER, A.M., *Professor of Latin.*

EMIL GUSTAV HIRSCH, A.M., LL.D., LIT.D., D.D., *Professor of Rabbinical Literature and Philosophy.*

SAMUEL WENDELL WILLISTON, M.D., PH.D., *Professor and Head of the Department of Paleontology.*

JAMES LAURENCE LAUGHLIN, PH.D., *Professor and Head of the Department of Political Economy.*

ALBERT ABRAHAM MICHELSON, PH.D., SC.D., LL.D., *Professor and Head of the Department of Physics.*

NATHANIEL BUTLER, A.M., D.D., LL.D., *Professor of Education; Dean of the College of Education; Director of Co-operating Work.*

FRANK BIGELOW TARBELL, PH.D., *Professor of Classical Archæology.*

ERNEST DEWITT BURTON, D.D., *Professor and Head of the Department of Biblical and Patristic Greek.*

ALBION WOODBURY SMALL, PH.D., LL.D., *Professor and Head of the Department of Sociology; Dean of the Graduate School of Arts and Literature.*

OSKAR BOLZA, PH.D., *Professor of Mathematics.*

JOSEPH PAXSON IDDINGS, PH.B., *Professor of Petrology.*

CHARLES REID BARNES, PH.D., *Professor of Plant Physiology; Examiner for Colleges.*

*The names in each group, with the exception of the name of the President of the University, are arranged in the order of collegiate seniority.

PAUL SHOREY, Ph.D., *Professor and Head of the Department of Greek.*

BENJAMIN TERRY, Ph.D., LL.D., *Professor of Mediæval and English History.*

WILLIAM DARNALL MacCLINTOCK, A.M., *Professor of English Literature; Dean of the Junior College of Philosophy* (Women).

IRA MAURICE PRICE, D.B., Ph.D., LL.D., *Professor of the Semitic Languages and Literatures.*

GEORGE BURMAN FOSTER, A.M., *Professor of the Philosophy of Religion.*

FLOYD RUSSELL MECHEM, A.M., *Professor of Law.*

MARION TALBOT, A.M., LL.D., *Professor of Household Administration; Dean of Women, and Head of Green House.*

ROLLIN D. SALISBURY, A.M., LL.D., *Professor of Geographic Geology and Head of the Department of Geography; Dean of the Odgen (Graduate) School of Science.*

STARR WILLARD CUTTING, Ph.D., *Professor and Head of the Department of Germanic Languages and Literatures.*

ERNST FREUND, J.U.D., Ph.D., *Professor of Jurisprudence and Public Law.*

FRANK FROST ABBOTT, Ph.D., *Professor of Latin.*

ANDREW CUNNINGHAM McLAUGHLIN, A.M., LL.B., *Professor and Head of the Department of History.*

JOHN MATTHEWS MANLY, Ph.D., *Professor and Head of the Department of English.*

ELIAKIM HASTINGS MOORE, Ph.D., LL.D., *Professor and Head of the Department of Mathematics.*

ROBERT FRANCIS HARPER, Ph.D., *Professor of the Semitic Languages and Literatures.*

LUDVIG HEKTOEN, M.D., *Professor and Head of the Department of Pathology and Bacteriology.*

GEORGE HERBERT MEAD, A.B., *Professor of Philosophy.*

JOHN ULRIC NEF, Ph.D., *Professor and Head of the Department of Chemistry.*

SHAILER MATHEWS, D.D., *Professor of Systematic Theology; Junior Dean of the Divinity School.*

JAMES HAYDEN TUFTS, Ph.D., LL.D., *Professor and Head of the Department of Philosophy.*

JAMES RICHARD JEWETT, Ph.D., *Professor of the Arabic Language and Literature.*

EDWIN ERLE SPARKS, A.M., Ph.D., *Professor of American History; Curator of the Historical Museum; Dean of University College.*

GEORGE EDGAR VINCENT, Ph.D., *Professor of Sociology; Dean of the Junior Colleges.*

CARL DARLING BUCK, Ph.D., *Professor and Head of the Department of Sanskrit and Indo-European Comparative Philology.*

ALEXANDER SMITH, Ph.D., *Professor and Director of General and Physical Chemistry; Dean of the Junior College of Science* (Men).

JULIUS STIEGLITZ, Ph.D., *Professor of Chemistry.*

GEORGE LINCOLN HENDRICKSON, A.B., L.H.D., *Professor of Latin.*

EDWARD CAPPS, Ph.D., *Professor of Greek.*

CHARLES ZUEBLIN, Ph.B., D.B., *Professor of Sociology.*

JAMES HENRY BREASTED, Ph.D., *Professor of Egyptology and Oriental History; Director of Haskell Oriental Museum.*

GEORGE WILLIAM MYERS, Ph.D., *Professor of the Teaching of Mathematics and Astronomy, School of Education.*

EDWIN OAKES JORDAN, Ph.D., *Professor of Bacteriology.*

ROBERT RUSSELL BENSLEY, A.B., M.B., *Professor of Anatomy.*

JAMES ROWLAND ANGELL, A.M., *Professor and Head of the Department of Psychology; Director of the Psychological Laboratory.*

ROBERT HERRICK, A.B., *Professor of English.*

FRANK RATTRAY LILLIE, Ph.D., *Professor of Embryology; Assistant Curator of the Zoölogical Museum.*

CHARLES JUDSON HERRICK, S.M., Ph.D., *Professor of Neurology.*

ALBERT PRESCOTT MATHEWS, Ph.D., *Professor of Physiological Chemistry* (Wood's Holl).

CLARK BUTLER WHITTIER, A.B., LL.B., *Professor of Law.*

JAMES PARKER HALL, A.B., LL.B., *Professor of Law; Dean of the Law School.*

LINDSAY TODD DAMON, A.M., *Professor of English, Brown University* (Summer Quarter, 1907).

FRED HARVEY HALL CALHOUN, Ph.D., *Professor of Geology, Clemson College, South Carolina* (Summer Quarter, 1907).

JAMES ALBERT WOODBURN, Ph.D., *Professor of American History and Political Science, Indiana University* (Summer Quarter, 1907).

CHARLES KENNETH LEITH, Ph.D., *Professor of Geology, University of Wisconsin; Lecturer on Pre-Cambrian Geology* (Winter Quarter, 1908).

WALTER STANLEY HAINES, A.M., M.D., *Professorial Lecturer on Toxicology.*

ERNEST RITSON DEWSNUP, A.M., *Professorial Lecturer on Railways, and Curator of the Museum of Commerce.*

WILLIAM ESTABROOK CHANCELLOR, A.M., *Superintendent of Schools, Washington, D. C.* (Summer Quarter, 1907).

HENRY WALGRAVE STUART, Ph.D., *Professor of Philosophy, Lake Forest College* (Summer Quarter, 1907).

FRANCIS ADELBERT BLACKBURN, Ph.D., *Associate Professor of the English Language.*

FRANK JUSTUS MILLER, Ph.D., *Associate Professor of Latin; Examiner for Secondary Schools.*

ALBERT HARRIS TOLMAN, Ph.D., *Associate Professor of English Literature.*

MYRA REYNOLDS, Ph.D., *Associate Professor of English Literature; Head of Nancy Foster House.*

KARL PIETSCH, Ph.D., *Associate Professor of Romance Philology.*

CLARENCE FASSETT CASTLE, Ph.D., *Associate Professor of Greek on the* Edward Olsen *Foundation.*

FREDERICK STARR, Ph.D., *Associate Professor of Anthropology; Curator of the Anthropological Section of Walker Museum.*

FRANCIS WAYLAND SHEPARDSON, Ph.D., *Associate Professor of American History; Dean of the Senior Colleges.*

WILLIAM ISAAC THOMAS, Ph.D., *Associate Professor of Sociology; Superintendent of Departmental Libraries.*

FREDERIC IVES CARPENTER, Ph.D., *Associate Professor of English.*

WILLIAM BISHOP OWEN, Ph.D., *Associate Professor of Education; Dean of the University High School.*

THOMAS ATKINSON JENKINS, Ph.D., *Associate Professor of French Philology.*

FERDINAND SCHWILL, Ph.D., *Associate Professor of Modern History.*

ADDISON WEBSTER MOORE, Ph.D., *Associate Professor of Philosophy.*

CHARLES RIBORG MANN, Ph.D., *Associate Professor of Physics.*

GORDON JENNINGS LAING, Ph.D., *Associate Professor of Latin.*

ROBERT ANDREWS MILLIKAN, Ph.D., *Associate Professor of Physics.*

ROBERT MORSS LOVETT, A.B., *Associate Professor of English; Dean of the Junior College of Literature* (Men).

LEONARD EUGENE DICKSON, Ph.D., *Associate Professor of Mathematics.*

CHARLES EDWARD MERRIAM, Ph.D., *Associate Professor of Political Science.*

HERBERT JOSEPH DAVENPORT, Ph.D., *Associate Professor of Political Economy; Head of North House.*

PAUL OSKAR KERN, Ph.D., *Assistant Professor of Germanic Philology.*

FRANCIS ASBURY WOOD, Ph.D., *Assistant Professor of Germanic Philology.*

ALICE PELOUBET NORTON, A.M., *Assistant Professor of Household Administration.*

HERBERT ELLSWORTH SLAUGHT, Ph.D., *Assistant Professor of Mathematics.*

GEORGE CARTER HOWLAND, A.M., *Assistant Professor of Italian Philology.*

DAVID JUDSON LINGLE, Ph.D., *Assistant Professor of Physiology.*

JOHN GORDON WILSON, A.M., M.B., *Assistant Professor of Anatomy.*

HERBERT LOCKWOOD WILLETT, Ph.D., *Assistant Professor of the Semitic Languages and Literatures.*

KURT LAVES, Ph.D., *Assistant Professor of Astronomy.*

MARTIN SCHÜTZE, Ph.D., *Assistant Professor of German Literature.*

JACOB WILLIAM ALBERT YOUNG, Ph.D., *Assistant Professor of the Pedagogy of Mathematics.*

CLYDE WEBER VOTAW, D.B., Ph.D., *Assistant Professor of Biblical Greek.*

GEORGE AMOS DORSEY, Ph.D., *Assistant Professor of Anthropology.*

CHARLES JOSEPH CHAMBERLAIN, Ph.D., *Assistant Professor of Morphology and Cytology.*

JOHN PAUL GOODE, Ph.D., *Assistant Professor of Geography.*

WILLIAM HILL, A.M., *Assistant Professor of Political Economy.*

CHARLES MANNING CHILD, Ph.D., *Assistant Professor of Zoölogy.*

EDGAR JOHNSON GOODSPEED, Ph.D., *Assistant Professor of Biblical and Patristic Greek; Assistant Director of Haskell Oriental Museum.*

JOHN CUMMINGS, Ph.D., *Assistant Professor of Political Economy.*
PHILIP SCHUYLER ALLEN, Ph.D., *Assistant Professor of German Literature.*
HERBERT NEWBY McCOY, Ph.D., *Assistant Professor of Physical Chemistry.*
JAMES WESTFALL THOMPSON, Ph.D., *Assistant Professor of European History; Dean of the Junior College of Philosophy* (Men).
WILLARD CLARK GORE, Ph.D., *Assistant Professor of Psychology.*
STUART WELLER, Ph.D., *Assistant Professor of Paleontologic Geology.*
NORMAN MacLEOD HARRIS, M.B., *Assistant Professor of Bacteriology.*
HOWARD TAYLOR RICKETTS, S.B., M.D., *Assistant Professor of Pathology.*
FOREST RAY MOULTON, Ph.D., *Assistant Professor of Astronomy.*
CARL KINSLEY, A.M., M.E., *Assistant Professor of Physics.*
HARRY GIDEON WELLS, Ph.D., M.D., *Assistant Professor of Pathology.*
SAMUEL ALEXANDER MATTHEWS, M.D., *Assistant Professor of Experimental Therapeutics.*
PRESTON KYES, A.M., M.D., *Assistant Professor of Experimental Pathology.*
JAMES WEBER LINN, A.B., *Assistant Professor of English.*
HENRY GORDON GALE, Ph.D., *Assistant Professor of Physics.*
WALDEMAR KOCH, Ph.D., *Assistant Professor of Physiological Chemistry.*
ANTON JULIUS CARLSON, Ph.D., *Assistant Professor of Physiology.*
WILLIAM LAWRENCE TOWER, S.B., *Assistant Professor of Embryology.*
REGINALD CAMPBELL THOMPSON, A.M., *Assistant Professor of Semitic Languages.*
LAUDER WILLIAM JONES, Ph.D., *Assistant Professor of Analytical Chemistry.*
HENRY CHANDLER COWLES, Ph.D., *Assistant Professor of Botany.*
TREVOR ARNETT, A.B., *University Auditor; Lecturer on Accounting.*
ELLEN CHURCHILL SEMPLE, Ph.D., *Assistant Professor* (Summer Quarter, 1906).

THOR ROTHSTEIN, A.B., M.D., *Instructor in Neuropathology.*
EDWARD AMBROSE BECHTEL, Ph.D., *Instructor in Latin.*
SOPHONISBA PRESTON BRECKINRIDGE, Ph.D., *Instructor in Household Administration; Assistant Dean of Women.*
EDWARD SCRIBNER AMES, Ph.D., *Instructor in Philosophy.*
ROBERT JOHNSON BONNER, Ph.D., *Instructor in Greek.*
GEORGE ELMER SHAMBAUGH, M.D., *Instructor in Anatomy of Ear, Nose, and Throat.*
GEORGE BREED ZUG, A.B., *Instructor in the History of Art.*
JOHN MERLIN POWIS SMITH, Ph.D., *Instructor in Semitic Languages and Literatures.*
ADOLPH CHARLES VON NOÉ, Ph.D., *Instructor in German Literature.*
JOSEPH PARKER WARREN, Ph.D., *Instructor in History.*
THOMAS BRUCE FREAS, A.B., *Curator in Chemistry.*
DANIEL GRAISBERRY REVELL, A.B., M.B., *Instructor in Anatomy.*
BASIL COLEMAN HYATT HARVEY, A.B., M.B., *Instructor in Anatomy.*
BROWN PUSEY, M.D., *Instructor in the Pathology of the Eye.*
JOHN CHARLES HESSLER, Ph.D., *Instructor in Chemistry.*
WALLACE WALTER ATWOOD, Ph.D., *Instructor in Physiography and General Geology.*
PERCY HOLMES BOYNTON, A.M., *Instructor in English.*
ROBERT MORRIS, LL.B., A.M., *Instructor in Political Economy.*
SUSAN HELEN BALLOU, Ph.B., *Instructor in Latin.*
WILLIAM PIERCE GORSUCH, A.B., *Instructor in Public Speaking.*
ARTHUR CONSTANT LUNN, A.M., Ph.D., *Instructor in Applied Mathematics.*
JOHN BROADUS WATSON, Ph.D., *Instructor in Experimental Psychology.*
HENRY PORTER CHANDLER, A.B., *Instructor in English.*
HENRI CHARLES EDOUARD DAVID, A.M., *Instructor in French.*
ROBERT FRANKLIN HOXIE, Ph.D., *Instructor in Political Economy.*
HARLAN H. BARROWS, S.B., *Instructor in Geology and Geography.*
NELS JOHANN LENNES, S.M., *Instructor in Mathematics, Wendell Phillips High School, Chicago* (Summer Quarter, 1907).

FREDERICK LESLIE RANSOME, Ph.D., *Lecturer on Ore Deposits* (Winter Quarter, 1907).
HENRY BURTON SHARMAN, Ph.D., *Instructor in New Testament Literature* (Spring Quarter, 1907).
EDWIN ASBURY KIRKPATRICK, S.B., Ph.M., *Department of Psychology and Child Study, State Norma School, Massachusetts* (Summer Quarter, 1907).
IRVING ELGAR MILLER, Ph.D., *State Normal School, Wisconsin* (Summer Quarter, 1907).

JOHN JACOB MEYER, Ph.D., *Associate in German.*
WILLIS BOIT HOLMES, Ph.D., *Associate in Chemistry.*
JULIAN PLEASANT BRETZ, Ph.D., *Associate in History.*
JAMES FINCH ROYSTER, A.B., *Associate in English.*
WILLIAM JESSE GOAD LAND, Ph.D., *Associate in Morphology.*
DANIEL DAVID LUCKENBILL, A.B., *Associate in Semitic Languages and Literatures.*
SAMUEL NORTHRUP HARPER, A.B., *Associate in the Russian Language and Literature.*
EDWARD BENJAMIN KREHBIEL, Ph.D., *Associate in History.*
ALBERT WOELFEL, M.D., *Associate in Physiology.*
EDITH ETHEL BARNARD, S.M., *Associate in Qualitative Analysis.*
VICTOR ERNEST SHELFORD, S.B., *Associate in Zoölogy.*
FRANK HENRY PIKE, A.B., *Associate in Physiology.*

ELIZABETH DUNN, A.M., M.D., *Assistant in Neurology.*
WILLIAM BURNETT McCALLUM, Ph.D., *Assistant in Botany.*
HEINRICH HASSELBRING, Ph.D., *Assistant in Plant Pathology.*
HUGH McGUIGAN, S.B., *Assistant in Physiological Chemistry.*
EDWIN GARVEY KIRK, S.B., *Assistant in Anatomy.*
WILLIAM CROCKER, Ph.D., *Assistant in Botany.*
THOMAS MATHESON WILSON, S.M., *Assistant in Physiology.*
JOHN SUNDWALL, Ph.D., *Assistant in Anatomy.*
OSCAR RIDDLE, S.B., *Assistant in Zoölogy.*
EMIL GOETTSCH, Ph.D., *Assistant in Anatomy.*
JAMES RICHARD GREER, S.B., *Assistant in Physiology.*
DENNIS EMERSON JACKSON, A.B., *Assistant in Pharmacology.*
HERBERT HORACE BUNZEL, S.B., *Assistant in Physiology.*
ELIZABETH SPRAGUE, *Assistant in Household Administration, College of Education.*
AMY LOUISE DANIELS, *Assistant in Domestic Science, College of Education.*
THOMAS McDOUGALL HILLS, Ph.B., *Assistant in Geology* (Summer Quarter, 1907).
ARTHUR CARLETON TROWBRIDGE, S.B., *Assistant in Geology* (Summer Quarter, 1907).

WILLIAM CLINTON ALDEN, Ph.D., *Docent in Field Geology.*
EDMUND BUCKLEY, Ph.D., *Docent in Comparative Religion* (Summer Quarter).

APPOINTMENTS TO FELLOWSHIPS FOR 1906–7

NOTE.—(1) Appointments for 1907-8 will be made at an early date. (2) The name of the appointee is followed by that of the institution at which the degree was obtained, the department in which the appointment is made, and the state in which the appointee resides. (3) In each case in which more than three appointments are made for one department, either there is a special fellowship for that department or the stipend for some appointees is reduced, or there is no stipend.

ERNEST ANDERSON, S.M., University of Texas, Chemistry, Texas.

MILTON D. BAUMGARTNER, A.B., A.M., University of Kansas, German, Kansas.

SCOTT ELIAS WILLIAM BEDFORD, A.M., Baker University, Sociology, Illinois.

FRANK CHRISTIAN BECHT, S.B., the University of Chicago, Physiology, Illinois.

SPURGEON BELL, S.B., University of Texas, Political Economy, Texas.

ROBERT LOUIS BENSON, A.M., University of Michigan, Pathology, Michigan.

LILLIAN GAY BERRY, A.M., Indiana University, Latin, Indiana.

GEORGE DAVID BIRKHOFF, A.B., Harvard University, Mathematics, Michigan.

MARY BLOUNT, S.B., University of Michigan, Zoölogy, Illinois.

KATHARINE BLUNT, A.B., Vassar College, Chemistry, Illinois.

DONALD ELLIOTT BRIDGMAN, A.B., Hamline University, Political Economy, Minnesota.

CLYDE BROOKS, A.B., University of Missouri, Physiology, Missouri.

HAZEL LOUISE BROWN, A.B., the University of Chicago, Greek, Chicago.

HOWARD GRAY BROWNSON, A.B., University of Illinois, Political Economy, Minnesota.

HERBERT HORACE BUNZEL, S.B., the University of Chicago, Chemistry, Chicago.

STEPHEN REID CAPPS, A.B., the University of Chicago, Geology, Illinois.

HARRY MILTON CLEM, A.B., Indiana University, Geography, Indiana.

OLIVER CHARLES CLIFFORD, A.B., Oberlin College, Physics, Ohio.

MARGARET DAVIDSON, PH.B., the University of Chicago, English, Ireland.

JUNE ETTA DOWNEY, A.B., University of Wyoming, Psychology, Wyoming.

CLARENCE ADDISON DYKSTRA, A.B., State University of Iowa, History, Iowa.

HAROLD EVERETT EGGERS, S.B., University of Wisconsin, Pathology, Wisconsin.

ANA JULE ENKE, PH.B., the University of Chicago, Romance, Illinois.

GRACE MAXWELL FERNALD, A.B., Mount Holyoke College, Physiology, Ohio.

PHILIP FITCH, A.B., Colorado College, Physics, Colorado.

REGINALD RUGGLES GATES, S.B., McGill University, Botany, Canada.

FRANKLIN HERMON GESELBRACHT, A.B., the University of Chicago; PH.D., University of Leipzig, New Testament, Illinois.

HERBERT MARCUS GOODMAN, S.B., the University of Chicago, Bacteriology, Illinois.

JAMES RICHARD GREER, S.B., the University of Chicago, Physiology, Illinois.

JOHN LEONARD HANCOCK, A.B., the University of Chicago, Greek, Iowa.

JOSEPH KINMONT HART, A.B., Franklin College, Ecclesiastical Sociology, Indiana.

JOSEPH WILLIAM HAYES, A.B., Amherst College, Psychology, New York.

JACOB HAROLD HEINZELMAN, A.B., University of Illinois, German, Germany.

VICTOR EMMANUEL HELLEBERG, A.B., Yale University, Sociology, Illinois.

HERBERT WYNFORD HILL, PH.M., the University of Chicago, English, Texas.

CHARLES ELLSWORTH HORNE, A.M., Waynesburg College, Semitics, Pennsylvania.

NAOZO ICHINOHE, Imperial University of Japan, Astronomy, Japan.

LOUIS INGOLD, A.M., University of Missouri, Mathematics, Missouri.

ROGER MILLER JONES, A.B., Denison University, Greek, Ohio.

FRANK JAMES KATZ, A.B., University of Wisconsin, Geology, New York.

WILLIAM GORDON KELSO, A.B., Princeton University, Philosophy, New York.

THOMAS ALBERT KNOTT, A.B., Northwestern University, English, Illinois.

JOHN MATTHIAS KUEHNE, S.M., University of Texas, Physics, Texas.

FRANK GRANT LEWIS, A.B., Brown University, Biblical Greek, New York.

WINFORD LEE LEWIS, A.B., Leland Stanford Junior University, Chemistry, Colorado.

DANIEL DAVID LUCKENBILL, A.B., University of Pennsylvania, Semitics, Pennsylvania.

SAMUEL MCCLINTOCK, PH.B., the University of Chicago, Political Science, Kentucky.

DOUGLAS CLYDE MACINTOSH, A.B., McMaster University, Systematic Theology, Canada.

JOHN MCLAUGHLAN, A.M., McMaster University, Church History, Canada.

WILLIAM DUNCAN MACMILLAN, A.B., Fort Worth University, Astronomy, Wisconsin.

HARRIS FRANKLIN MACNEISH, S.M., the University of Chicago, Mathematics, Illinois.

Mary Edith McGrew, A.M., University of California, Greek, Massachusetts.

Robert James George McKnight, A.B., Geneva College, Semitics, Pennsylvania.

Oscar Edward Meinzer, A.B., Beloit College, Geology, Illinois,

Albert Eli Merrill, A.B., the University of Chicago, Physics, Illinois.

Rowland Hector Mode, A.M., McMaster University, Semitics, Canada.

Roy Lee Moodie, A.B., University of Kansas, Paleontology, Kentucky.

Guy Burl Morrison, A.B., Yale University, Physiological Chemistry, Iowa.

Cecil Clare North, A.B., University of Nebraska, Sociology, Iowa.

Frederick Owen Norton, A.B., Kentucky University, Biblical Greek, Canada.

Hortense Roberts Patterson, A.M., University of Colorado, Biblical Greek, Illinois.

Eugene Bryan Patton, A.B., Washington University, Political Economy, Tennessee.

Joseph Peterson, S.B., the University of Chicago, Psychology, Utah.

Frank Henry Pike, A.B., Indiana University, Physiology, Illinois.

Liborio Gomez y Pineda, A.B., San Juan de Letran, Physiology, Philippine Islands.

John Jacob Putnam, S.B., University of Denver, Chemistry, Nebraska.

Milo Milton Quaife, Ph.B., Iowa College, History, Iowa.

William John Reed, S.B., Northwestern University, Geology, Illinois.

Edith Rudolph, A.B., Indiana University, Romance, Indiana.

Evan Taylor Sage, A.B., University of Nebraska, Latin, Nebraska.

Draper Tolman Schoonover, A.B., Washburn College, Latin, West Virginia.

Charles Manford Sharpe, A.M., University of Kansas, Systematic Theology, Indiana.

Charles Albert Shull, S.B., the University of Chicago, Zoölogy, Ohio.

Henry Smith, A.M., the University of Chicago, History, Illinois.

Matthew Lyle Spencer, A.M., Northwestern University, English, Mississippi.

John Sundwall, Ph.B., Central University of Utah, Anatomy, Utah.

Frank Adolph St. Sure, S.B., University of Wisconsin, Anatomy, Wisconsin.

William Walker Swanson, A.M., Queen's University, Political Economy, Canada.

Reinhardt Thiessen, S.B., the University of Chicago, Botany, Wisconsin.

Katashi Takahashi, Imperial University of Japan, Zoölogy, Japan.

Harry LeRoy Taylor, A.B., Cornell College, Systematic Theology, New York.

Berthold Louis Ullman, A.B., the University of Chicago, Latin, Chicago.

John Frederick Vichert, A.M., McMaster University, Church History, Canada.

Chester Wesley Washburn, A.B., University of Oregon, Geology, Oregon.

Thacher Wellman, A.B., Wellesley College, Household Administration, Massachusetts.

Edward John Williamson, A.B., A.M., Queen's University, German, Canada.

Shigeo Yamanouchi, Tokio Teachers' College, Botany, Japan.

Clarence Stone Yoakum, A.B., Campbell College, Psychology, Kansas.

Ghen-ichiro Yoshioka, Ph.B., the University of Chicago, Sanskrit, Japan.

INTRODUCTORY

I. DEPARTMENTS OF INSTRUCTION

For purposes of instruction the University is organized into departments. The following departments are included within the Faculties of Arts, Literature and Science, and give instruction in the Colleges:

I. Philosophy.
IA. Psychology.
II. Political Economy.
III. Political Science.
IV. History.
V. The History of Art.
VI. Sociology and Anthropology.
VI A. Household Administration.
VII. Comparative Religion.
VIII. The Semitic Languages and Literatures.
IX. Biblical and Patristic Greek.
X. Sanskrit and Indo-European Comparative Philology.
XI. The Greek Language and Literature.
XII. The Latin Language and Literature.
XIII. The Romance Languages and Literatures.
XIV. The Germanic Languages and Literatures.
XV. The English Language and Literature, and Rhetoric.
XVI. General Literature.
XVII. Mathematics.
XVIII. Astronomy and Astrophysics.
XIX. Physics.
XX. Chemistry.
XXI. Geology.
XXIA. Geography.
XXII. Zoölogy.
XXIII. Anatomy.
XXIV. Physiology (including Physiological Chemistry and Pharmacology).
XXVI. Paleontology.
XXVII. Botany.
XXVIII. Pathology and Bacteriology.

THE UNIVERSITY YEAR

The university year is divided into four Quarters of about twelve weeks each. The Autumn, Winter, and Spring Quarters begin on the first day of October, January, and April, respectively, and the Summer Quarter on the day next following the last day of the Spring Quarter. The Summer Quarter is divided into two equal Terms.

At the close of the Autumn and Winter Quarters there is a recess of about a week. At the close of the Spring Quarter there is no recess. At the close of the Summer Quarter there is a recess of about four weeks.

Students are admitted at the opening of any one of the four quarters, and at the opening of the Second Term of the Summer Quarter.

Degrees are conferred at the close of each quarter at the quarterly Convocation.

II. THE GRADUATE SCHOOLS

ORGANIZATION AND ADMISSION

Two Graduate Schools are now organized: the Graduate School of Arts and Literature, and the Ogden (Graduate) School of Science.

Admission to the Graduate Schools of the University will be granted:

1. To those who have been graduated from the Colleges of the University of Chicago.

2. To those who are graduates of other institutions of good standing, and who hold Bachelor's degrees substantially equal to those conferred by the University.

In the case of students not graduates of the University of Chicago, applications for admission should be accompanied by the Bachelor's diploma, or other official evidence of graduation.

It should be noted that admission to a Graduate School does not necessarily admit to candidacy for a higher degree.

COURSES OF INSTRUCTION

A course of instruction offered daily (i. e., four or five days a week) throughout a Quarter is called a *Major*. A course offered daily throughout a Term is called a *Minor*. A seminar usually counts as a *Major*. The following abbreviations are used: M=Minor course=a single course for six weeks. DM=Double Minor course=a double course two hours daily for six weeks. Mj=Major course=a single course for twelve weeks. DMj=Double Major course=a double course for twelve weeks.

Courses announced for the Senior Colleges do not usually count directly toward a higher degree. In some cases they are included among the announcements in this *Circular of Information*, because they may be desirable prerequisites of other courses.

DEGREES

Graduate study may lead to a Master's or to a Doctor's degree under the conditions specified below.

I. *The Master's degrees.*—Three degrees are conferred, viz: *Master of Arts, Master of Science*, and *Master of Philosophy*.

1. *Candidacy.*—Any member of the Graduate Schools who has been in attendance one quarter or more, and whose undergraduate course is equivalent to that required for a corresponding Bachelor's degree in the University of Chicago,* may, on recommendation by the department or departments in which he is working, be enrolled by vote of the Faculties of the Graduate Schools, as a candidate for a Master's degree. Admission to candidacy must precede the conferring of the degree, by at least two months.

2. *Requirements.*—Students thus accepted as candidates will be given a Master's degree on fulfilment of the following requirements:

   a) At least three quarters' residence at the University.

   b) At least eight majors of graduate work. These eight majors need not be all in one department, but must be selected according to some rational plan, approved by the Deans of the Graduate Schools at least six months before the degree is conferred. The Individual courses must receive the approval of the heads of the departments concerned.

   c) A satisfactory dissertation on a subject approved by one of the departments in which the work is done.

   NOTE.—In exceptional cases the Deans, upon the recommendation of the departments concerned, may accept an additional major in lieu of the dissertation.

   d) The delivery of five printed or type-written copies, including one bound copy, of the dissertation to the University Library, three weeks before the Convocation at which the degree is to be conferred.

   e) A satisfactory examination on the work taken for the degree.

II. *The degree of Doctor of Philosophy.*

1. *Candidacy.*—Any member of the Graduate Schools who has been in attendance one quarter or more, whose undergraduate course is equivalent* to that required for a Bachelor's degree in the University of Chicago,† whose thesis subject has been accepted by the principal department, and who has a reading knowledge of French and German (which must be certified by the heads of those departments,) may, on recommendation by the principal department in which he wishes to take his degree, be enrolled, by vote of the Faculties of the Graduate Schools, as a candidate for the Doctor's degree. Admission to candidacy must precede the conferring of the degree by at least two months.

2. *Requirements.*—Students thus accepted as candidates will be given the Doctor's degree, on the fulfilment of the following requirements:

   a) At least three years of resident work at the University, in pursuance of an accepted course of study. The course in question must include one principal, and either one or two secondary subjects. The amount of work required in the secondary subject or subjects, is nine majors.

   b) A satisfactory final examination upon the work done in preparation for the degree.

* Attention is particularly called to the fact that the term "equivalent" in this connection refers to quantity only. It does not affect the question of the specific Master's degree (Arts, Science, or Philosophy), to which a given student's work would lead.

† In case the candidate did not obtain his Bachelor's degree at the University of Chicago, he will present to the Examiner on blanks furnished for the purpose a detailed statement of his undergraduate work. The Examiner cannot always report upon these statements during the opening week of the quarter.

c) The presentation of a satisfactory printed thesis upon a subject which has been approved by the head of the department in which the principal part of the candidate's work has been done.

d) A good command of literary expression and such knowledge of subjects considered fundamental as may be prescribed by the several departments.

e) Candidates for the degree of Doctor of Philosophy may not, as a rule, take more than two-thirds of their work in one department, and may not take work which is to count toward the degree in more than three departments.

3. *Thesis.*—Each student is required to prepare a thesis upon some question connected with his principal subject. This production must constitute an actual contribution to knowledge. Its subject must be submitted for approval to the head of the department at least twelve months before the date of the final examination; the thesis itself must be submitted in written form to the head of the department three months before the date of the final examination, and, after criticism, in typewritten form, six weeks before the date of the final examination; after acceptance, *one hundred* printed copies of the same must be deposited in the Library within six months of the date of the final examination. Accepted theses become the property of the University.

4. *Final examination.*—After admission to candidacy (Clause 1, Art. II, p. 11), the student may present himself for examination in his secondary subject or subjects as soon as he has fulfilled the requirements of the department or departments concerned. He may present himself for the examination in his principal subject, or in both principal and secondary subjects if the examination in the latter has not been taken in advance, (1) as soon as he has fulfilled the requirements of the department or departments concerned, and (2) after he has presented to the Dean (*a*) a written certificate from the principal department concerned that the thesis is ready for the printer, and (*b*) the written evidence of some responsible journal or publisher that the required number of printed copies will be furnished the University within six months from the date of the convocation when the degree is conferred. The examination will be conducted by a committee consisting of the members of the principal department concerned, an appointed representative of the secondary department, or a representative of each of them if there are two, of any other members of the secondary department who may choose to attend, and a member of some other department appointed by the Deans of the Graduate Schools.

If the examinations in the secondary subjects are separated, they may not be held in the same quarter, or within two months of each other.

The candidate is required to prepare a typewritten or printed brief of his work, including an analysis of the thesis, and to file six copies of the same with his Dean for distribution to the committee one week before the time set for the examination. In the case of the examination in the secondary department, the statement should include the work in this department, and the statement for the final examination should include the work of both departments.

REMARK.—The degree of *Doctor of Philosophy* is given, not on the basis of the completion of a certain amount of time spent upon a specified programme, but as the recognition and mark of high attainments and ability in the candidate's chosen province, shown first by the production of a thesis evincing the power of independent investigation and forming an actual contribution to existing knowledge; and secondly, by the passing of examinations covering the general field of the candidate's subjects, with more minuteness in the case of the principal subject, with less minuteness in the case of the secondary subject or subjects.

5. *Non-resident work.*—After being admitted, the student may be allowed to substitute non-resident work for resident work to a limited extent, under conditions to be arranged in consultation with the Dean and the heads of the departments concerned.

6. *Work done in other universities.*—Graduate work done in another university will be accepted as equivalent to resident work in the University of Chicago, provided the institution in which the work was done is of high standing, and sufficient evidence is furnished that the particular work was satisfactorily performed.

Work done in other universities will not ordinarily count for more than one and one-half years of resident work in the University; but the degree of Doctor of Philosophy may, in exceptional cases, be granted after one year of residence.

NOTE.—In order to avoid misunderstandings, candidates for higher degrees should consult with their Deans concerning all technical requirements for such degrees, before application is made for admission to candidacy.

FELLOWSHIPS AND SCHOLARSHIPS

1. *The University Fellowships.*— The University appropriates annually twenty-one thousand, five hundred dollars ($21,500) for Fellowships in the Graduate Schools. These Fellowships are awarded by the Trustees, upon the recommendation of the President and the nomination of Departments, to Graduate students who desire to pursue advanced work in some special line. About seventy Fellowships, ranging in value from $120, or the tuition fees of a student for three quarters, to $520, are assigned each year.

2. *Applications for Fellowships.*— Applications for Fellowships should be addressed to the Deans of the Graduate Schools of the University, *and should be in their hands on or before March 1.*

3. *Appointments to Fellowships.*

   a) *Date.*—The annual assignment of Fellowships is made about the first of April. A Fellowship is available for any three of the four quarters of the year, beginning in June following the date of appointment.

   b) *Attainments required.*— The candidate must have attained proficiency in some Department. In general, he should have spent at least one year in resident study after receiving his Bachelor's degree. In making the appointment, special weight is given to theses indicating the candidate's ability to conduct original investigation.

4. *Special Fellowships.*—In addition to the regular University Fellowships mentioned above, there are special Fellowships offered by individuals. These vary somewhat in number and amount from year to year. At present they are as follows:

   a) The *William A. and Fanny C. Talcott Fellowships and Scholarships.*—In 1896 William A. Talcott, of Rockford, Ill., endowed four Fellowships and Scholarships, two of which bear his name and two the name of his widow, Fanny C. Talcott. They are intended primarily for the benefit of graduates of Rockford College, but, in the absence of such beneficiaries, may be assigned to others. They pay the tuition fees of those appointed to them.

   b) The *Bucknell Fellowship*, yielding $400, offered by Mr. Charles Miller, of Franklin, Pa., is open to graduates of Bucknell University. The appointment to this Fellowship is made by the faculty of Bucknell University.

   c) The *Joseph B. Loewenthal Fellowship in Chemistry*, endowed by Mr. Berthold Loewenthal, of Chicago, as a memorial of his son, Joseph B. Loewenthal. It yields about $420 to the incumbent annually appointed, and is awarded on the nomination of the Department of Chemistry and the recommendation of the President of the University.

5. *Graduate Scholarships.*—The Scholarships available for students in the Graduate Schools are as follows:

   a) *Scholarships for excellence in the work of the Senior Colleges.*—The University offers twenty Scholarships for excellence in the work of the Senior Colleges. The Scholarships are assigned annually, in the Spring Quarter, on the nomination of the Board of the Senior Colleges. Each Department of the University, with the approval of the Committee on Scholarships, has the privilege of naming a student who is for that year the honor student of the Senior Colleges in that department, and to this student there is given a Graduate Scholarship yielding in each case a sum equal to the University tuition fees for three quarters ($120), provided the student continues his studies in the Graduate Schools.

   b) The *William A. and Fanny C. Talcott Fellowships and Scholarships.*—See Fellowships.

   c) *Affiliation Scholarships.*—Under the conditions of affiliation with Kalamazoo College, Des Moines College, Butler College, and John B. Stetson University, the three students who stand highest in scholarship and general excellence in the graduating class of each institution are awarded Scholarships covering the University tuition fees for three quarters ($120). This arrangement continues in force until 1910.

   d) *Scholarships for Public Speaking.*—Three Scholarships, each yielding the amount of forty dollars ($40), or the tuition fee for a quarter, are awarded the winners in the preliminary contests in Public Speaking. In case the winner in a preliminary contest has previously secured a Scholarship in this way in the Graduate Schools, the award is made to the second in rank.

   e) *Scholarships for officers.*— Forty Scholarships, each yielding the tuition fees for three quarters ($120), are assigned annually to members of the Faculties, or wives of members, who

may desire to take courses of instruction in the University.

f) *Teachers in Affiliated Schools.*—Under the conditions of affiliation, teachers in the various Affiliated Schools of the University are assigned vouchers covering the tuition fee. The conditions under which these vouchers may be obtained will be mailed on application.

g) *General Scholarships.*—Forty Scholarships, each yielding the tuition fees for three quarters ($120), are assigned annually to students in the Graduate Schools on the recommendation of the Deans of these schools.

INCIDENTAL PRIVILEGES

1. *Physical culture.*—Work in the Department of Physical Culture is open to the students of the Graduate Schools.

2. *Chapel assembly.*—A weekly chapel assembly for the students of the Graduate Schools is held on Thursdays, at 10:30 A. M. Attendance is optional.

LIBRARIES, LABORATORIES, AND MUSEUMS

THE LIBRARIES

The General Library is for the use of students in all departments of the University. Students who have matriculated and paid their library fee may take at one time three volumes from the General Library. These may be kept two weeks, and at the end of that time, if desired, may be renewed for two weeks.

The General Library is open on every week day from 8:30 A. M. to 5:30 P. M.; during the Summer Quarter from 8:00 A. M. to 5:00 P. M. The Library receives 1,287 current periodical publications, including the transactions and proceedings of learned societies.

Many of the Departmental Libraries are open in the evening.

THE LABORATORIES

The Kent Chemical Laboratory and the Ryerson Physical Laboratory contain rooms for special research, small laboratories for work of investigation, large laboratories for general instruction, lecture-rooms, classrooms, library, museum, and offices.

The Hull Biological Laboratories are a group of four buildings devoted to the study of the Anatomical, Botanical, Physiological, and Zoölogical Sciences. Medical instruction is given in some of these laboratories.

THE MUSEUMS

The Walker Museum contains the collections of fossils of the Department of Geology, and various mineralogical, anthropological, paleontological, and geological collections, donated to or deposited in the Museum. It contains also the lecture-rooms and libraries of the Departments of Geology, Geography, Paleontology, and of the classes in Anthropology.

The Haskell Oriental Museum contains a series of large and well-equipped rooms for the installation and exhibition of museum material. The Biblical, the Comparative Religion, the Assyrian, and the Egyptian collections occupy the second floor. A large assembly room and administration offices are on the first floor and a library on the third floor.

THE OBSERVATORY

The Yerkes Astronomical Observatory is situated near Williams Bay, Wisconsin. Its principal instrument is a refracting telescope of forty inches aperture.

IV. GENERAL INFORMATION

ROUTINE OF ENTRANCE

Application should be addressed to THE UNIVERSITY OF CHICAGO, Chicago, Ill. When presenting himself for admission to the University, the student should bring his diploma, and present it, with any letters of introduction he may have, at the office of the Deans of the Graduate Schools. Detailed directions will be furnished at the Deans' office as to the mode of matriculation and registration for courses of instruction desired.

FEES FOR MATRICULATION, TUITION, ETC.

1. *Matriculation fee.*—The matriculation fee is $5, and is required of every student on entrance to the University.
2. *Tuition fee.*
   a) The tuition fee is $40 per quarter (including the library and incidental fee, $5) for regular work (three majors or their equivalent); there is no reduction to those taking only two majors.
   b) A reduction is made in case of students taking only one major (or equivalent), one-half the full tuition fee being charged.
   c) *All tuition and laboratory fees are due and payable on or before the first day of each quarter. All fees are payable to the Registrar, Cobb Lecture Hall, Room 7 A.*
3. *Laboratory fee.*—Students in Chemistry pay a laboratory fee of $5 for a major course, and $2.50 for a minor course. Students in Biology pay $2.50 for a major course, and $1.25 for a minor course, except for courses in Gross Anatomy, in which the fee is $5 for a major course. M and DMj courses will be charged in proportion. Ten dollars ($10) is the maximum charge for laboratory work in any one department. In addition to the regular laboratory fee, students in Chemistry procure in advance a coupon ticket, entitling them to $5 worth of laboratory material. Students in Biology will procure a coupon ticket, entitling them to $2.50 worth of laboratory material. Unused portions will be redeemed.
4. *Late registration fees.*
   a) Except in the case of students entering the University for the first time, a fee of $2 for late registration is charged, if registration is not effected on or before the first day of the quarter.
   b) If registration is not completed at the close of the second day of the quarter, the consent of the Dean is required, and a fee of $5 is paid.
5. *Graduation fee.*—The general graduation fee, including diploma, is $10.

ROOMS, BOARD, AND GENERAL EXPENSES

Nine dormitories have thus far been erected in the quadrangles. Two of these are reserved for the students of the Divinity School, and four are for women. A University House is organized in each dormitory; each House has a Head, appointed by the President of the University, and a House Committee, elected by the members; also a House Counselor, selected from the Faculties of the University by the members of the House. The membership of the House is determined by election, and each House is self-governing under the general control of the University Council.

The cost of rooms in the dormitories is from $20 to $74 per quarter of twelve weeks. This includes heat, light, and care. Each hall for women has separate dining hall and parlors. The cost of table board in these halls is $42 a quarter.

All applications for rooms, or for information concerning rooms and board within or without the quadrangles, should be made to the Registrar.

For further details, see special circulars as to rooms and board, which will be sent on application.

The following table will furnish an estimate of the annual expenses for thirty-six weeks of a student in the University, residing within the quadrangles:

	Lowest	Average	Liberal
University bill, tuition	$120.00	$120.00	$120.00
Rent and care of room	60.00	105.00	225.00
Board	100.00	126.00	225.00
Laundry	15.00	25.00	35.00
Textbooks and stationery	10.00	20.00	50.00
Total	$305.00	$396.00	$655.00

It is believed that students who find it necessary to reduce expenses below the lowest of these estimates can do so. Rooms outside the quadrangles, furnished, with heat, light, and care, may be obtained at from $1.25 a week upward, the $1.25 rate being easily secured where two students room together. Many places offer room and board from $4.50 upward. The Men's Commons, Hutchinson Hall, offers to students meals *à la carte.* Lexington Commons for women offers meals *à la carte* during the Autumn, Winter, and Spring Quarters. During the Summer Quarter the Men's Commons will be open to both men and women. A list of approved boarding places outside the quadrangles is kept on file at the Registrar's Office, Cobb Lecture Hall, and information regarding them may there be obtained.

THE UNIVERSITY EXTENSION DIVISION

Work for non-resident students is offered by the University through the University Extension Division.

The Lecture-Study Department offers courses of systematic lecture studies by members of the University Faculty, in communities where any committee or organization will undertake the responsibility of local management.

The Correspondence-Study Department offers to individual students systematic courses of study in secondary and college subjects under the direct supervision and guidance of a University instructor. For further information consult the *Circulars of Information of the University Extension Division.*

UNIVERSITY COLLEGE

University College is the college formerly conducted by the University of Chicago in the center of the city. It was originally designed chiefly for the benefit of active teachers of Chicago and vicinity. This service the College still performs, though its courses are open to all persons upon conditions similar to those in the colleges and the graduate schools on the quadrangles. The courses are given in the Emmons Blaine Hall, Kimbark Avenue, Monroe Avenue, and Fifty-ninth Street, in the afternoon, evening, and on Saturday. The courses offered are not only for undergraduate students, but also for graduate students, who will receive credit for their work in like manner as undergraduate students.

THE SCHOOLS AND COLLEGES OF ARTS, LITERATURE, AND SCIENCE

I. THE DEPARTMENT OF PHILOSOPHY AND EDUCATION

OFFICERS OF INSTRUCTION

JAMES HAYDEN TUFTS, Ph.D., LL.D., *Professor and Head of the Department of Philosophy.*
NATHANIEL BUTLER, A.M., D.D., LL.D., *Professor of Education.*
GEORGE HERBERT MEAD, A.B., *Professor of Philosophy.*
ADDISON WEBSTER MOORE, Ph.D., *Associate Professor of Philosophy.*
WILLIAM BISHOP OWEN, Ph.D., *Associate Professor of Education.*
WILLARD CLARK GORE, Ph.D., *Assistant Professor of Psychology.*
EDWARD SCRIBNER AMES, Ph.D., *Instructor in Philosophy.*
ROWLAND HAYNES, A.M., *Associate in Philosophy.*
WILLIAM ESTABROOK CHANCELLOR, A.M., *Superintendent of Schools, Washington, D. C.; Lecturer on Education* (Summer Quarter, 1907).
EDWIN ASBURY KIRKPATRICK, B.Sc., Ph.M., *Department of Psychology and Child Study, State Normal School, Fitchburg, Mass.; Lecturer on Education* (Summer Quarter, 1907).
IRVING EDWARD MILLER, Ph.D., *State Normal School, Milwaukee, Wis.; Lecturer on Education* (Summer Quarter, 1907).
HENRY WALDGRAVE STUART, Ph.D., *Professor of Philosophy, Lake Forest College* (Summer Quarter, 1907).

INSTRUCTORS IN OTHER DEPARTMENTS OFFERING INSTRUCTION IN THIS DEPARTMENT

PAUL SHOREY, Ph.D., *Professor and Head of the Department of the Greek Language and Literature.*
JAMES ROWLAND ANGELL, A.M., *Professor and Head of the Department of Psychology.*

FELLOWS, 1906–7

CLARENCE LEON CLARKE, Ph.B.
WILLIAM GORDON KELSO, JR., A.M.
JOHN ELBERT STOUT, A.B.
ANNA LOUISE STRONG, A.B.

INTRODUCTORY

The primary aim of the Department is to give training in the methods of philosophic inquiry, reflection, and statement, and thus to equip competent teachers and investigators in the various branches. The Department aims to train specialists, but only upon the basis of an adequate general knowledge. Candidates for the Doctor's degree are required to select for special attention, and to make some particular investigation in one of the four fields of Logic and Metaphysics, History of Philosophy, Æsthetics, Ethics; but this specialization presupposes sufficient knowledge of the other branches, and also of Psychology, to enable one to direct, and if necessary to undertake, teaching in them.

In the second place, it is believed that, in the existing state of life, Philosophy has much of value for those who do not intend to specialize in it. It is doubtful if there ever was a time when Philosophy lay so close to the various sciences, social, historical, and biological, on one side, and to the requirements of practical life on the other, as at present. The Department desires in the organization and arrangement of courses to make due recognition of this fact.

Students in other departments who are expecting to take Philosophy as a subsidiary subject for the Master's or Doctor's degree should see the Head of the Department at once after coming into University residence, and arrange for this work in advance. Nine majors are usually required where Philosophy is the minor subject for the Doctor's degree. The equivalents of the elementary courses in Psychology, Ethics, and Logic are required as antecedents. Work will be assigned according as the principal work is in literary, scientific, or historical and social lines.

A student presenting himself for the Doctor's degree with Philosophy as the chief subject will be required to have the equivalents of Courses 4–6 in the History of Philosophy, and at least three courses in Psychology; the latter may be either experimental or general, or a suitable combination of the two. He may further specialize, as already indicated, in the History of Philosophy, Ethics, Æsthetics, and Logic and Metaphysics.

The attention of students is particularly called to the University regulation that the examination in French and German must be passed before one can be regularly enrolled as a candidate for a degree. It is important that the student should be able to read these subjects early in his university course. To postpone any work necessary for this examination till late in the course is to fail in securing the advantages intended by the regulation. Accordingly, the Department will insist upon conformity with the requirement.

In case the antecedent work in elementary Psychology, Logic, and Ethics, and the History of Philosophy does not come up to the proper standard, the candidate for an advanced degree will be required to take the undergraduate work in these subjects. As a rule, students coming from institutions where advanced work in Philosophy is not provided will find it advantageous to do some review work here.

The libraries of the Departments of Philosophy and Psychology contain the more important works on Logic, Psychology, the History of Philosophy, Æsthetics, Ethics, and sets of the philosophical journals.

It is the primary aim of the work in Education to train competent specialists for the broad and scientific treatment of educational problems. The courses provided for this end fall in the main under three heads: (1) courses in psychology and related work; (2) courses in educational history and theory; (3) Courses in the best methods of teaching the various branches. Additional courses under (1) and (3) will be found under their respective departments.

It is believed that any profitable study of educational theory and method presupposes a thorough grounding in psychological principles; that a scientific treatment of educational problems demands as a prerequisite a familiarity with the methods and results of the modern study of the development of intelligence; that an appreciation of the ultimate ends of education requires that discipline in the estimate of values and ideals which is afforded by ethics; and that a broad outlook is best gained by an acquaintance with the history of human thought. It is expected, therefore, that the courses in educational theory be preceded or accompanied by the Introductory Courses in psychology and ethics, and that advanced work in this Department be accompanied by further work in the lines indicated above. In this connection attention is also called to the related courses in Biology, Physiology, Neurology, and Social Science.

The instructors in the department edit the *School Review*, a journal of secondary education, issued ten times a year, and published by the University of Chicago Press; subscription price, $1.50 per year.

After the completion of the required work (Courses 1, 2, or 3), students wishing to do further work in philosophy should take Courses 4–6, or 7, 9, 10. Candidates for honors in the Senior Colleges should take from four to six courses, selected from Courses 3–10, 33, 43.

COURSES OF INSTRUCTION

Courses in the History of Philosophy

4, 5. **History of Philosophy.**—These courses are designed (1) as a survey of the history of thought, considered in its relations to the sciences, to literature, and to social and political conditions; and (2) as an introduction to Philosophy through a more careful study of some of the most important systems. Windelband's *History of Philosophy*, with lectures, and readings from Plato, Aristotle, Descartes, Locke, Berkeley, Hume, and Kant. For the Senior Colleges and Graduate Schools.

2Mj. Autumn and Winter Quarters; 11:00
Dr. Ames

5A, 5B. **History of Modern Philosophy.**—The second part of the above course. First Term, Descartes to Berkeley; Second Term, Hume and Kant. Summer Quarter; 8:00
Associate Professor Moore and Professor Tufts

6. **Movements of Thought in the Eighteenth and Nineteenth Centuries.**—This is a non-technical course, for Senior College and Graduate students. It forms the conclusion of Course 5, but may be taken by those who have had Courses 1 and 2. Mj. Spring Quarter; 11:00
Associate Professor Moore

9. **History of Ancient Science.**—The technical skill of the civilizations with which the Greeks came in contact will be presented as the starting point of their conscious science. Their astronomy, physics, arithmetic, and geometry, their medicine

and biology, will be discussed in their genesis and their formulation into a physical theory of the world, and will be interpreted to some extent from the point of view of ancient philosophic doctrine. This course will be followed by Course 27 in the Department of Physics, "The History of Physical Science in the Mediaeval and Modern Periods." For Senior College students.

Mj. Autumn Quarter
PROFESSOR MEAD

10. **The Social and Ethical Content of Modern Philosophy.**—A survey of the more important social and ethical philosophy of the modern period, considered in its relation on the one hand to the development of individuality in the various spheres of political, religious, and social life, and on the other hand, in its relation to the philosophic thought of the period. Designed to follow Sociology Course 72. Open to students who have had Course 5 or Sociology 72.

[Not to be given in 1907–8]

13. **Philosophy of Aristotle.**—The course will present Aristotle's Philosophy as a whole. Effort will be made to do justice to the conceptions of the period when the whole of science and learning was brought under philosophy, and the effect of this attitude upon Aristotle's thought will be brought out. In particular the relation of Aristotle's Logic to the Dialectic that preceded him will be studied, and contrasted with the method of his scientific speculation. Finally the *Metaphysics* will be considered both as the achievement of Greek thought, and as the appearance of a new philosophic discipline.

Mj. Autumn Quarter
PROFESSOR MEAD

XI. 63, 64, 65. **Seminar: Plato.**

3Mj. Autumn, Winter, and Spring Quarters; Wed., 4:00–6:00

A second optional meeting, Fri. 4:00–6:00, will be held for the rapid reading of the *Republic*. Senior College students may elect this separately and receive credit for it.

PROFESSOR SHOREY

17. **Descartes, Leibnitz, and Newton.**—The development of the philosophic thought of this period will be presented in its relation to the discoveries in contemporaneous physical sciences and their mathematical technique. For Graduate students.

Mj. Winter Quarter; 9:30
PROFESSOR MEAD

22, 23. **The Philosophy of Kant.**—A critical discussion of Kant's Philosophy as a system, and its relations to previous and subsequent thought. The *Critique of Pure Reason* will be studied with Müller's translation and Adickes' text in the Autumn Quarter; the practical philosophy and teleology, in the Winter Quarter.

2Mj. Autumn and Winter Quarters, 1908–9
PROFESSOR TUFTS

26. **Herbert Spencer's Philosophy.**—An interpretative review of Spencer's characteristic doctrines as contained in his *First Principles* and parts of his *Psychology*, with possibly a brief notice also of his ethical and social theory.

ASSOCIATE PROFESSOR MOORE
[Not to be given in 1907–8]

29. **Indian and Chinese Philosophy.**—The lectures in this course will attempt to present, first, the main positions at which reflective thought arrived among the Indian and Chinese peoples, and, second, as far as possible, what were the conditions which led to these reflective processes.

PROFESSOR MEAD
[Not to be given in 1907–8]

COURSES IN LOGIC AND METAPHYSICS

31. **Philosophy in Relation to Science; Ancient Thought.**—The ancient scientific conceptions of the physical universe will be presented in their relation to the philosophic thought of the time. The science of the time of Aristotle will be the basis for discussion, and in particular the interconnection between the scientific methods and results and Aristotle's metaphysics will be studied. PROFESSOR MEAD

[Not to be given in 1906–7]

32. **Philosophy in Relation to Science; Modern Thought.**—The discussion of the parallel development of psychological theory and scientific method in the Middle Ages will be followed by a statement of the intellectual situation out of which Galileo's treatment of dynamics arose. The development of the mathematical theory from Descartes and Leibnitz to Newton will be presented from the point of view of its relation to parallel philosophic development. Finally, the present scientific conception of the physical world will be discussed in its bearing upon current logical and psychological theory.

Mj. Spring Quarter
PROFESSOR MEAD
[Not to be given in 1907–8]

34. **The Development of Logical Doctrine.**—Hobbes to Hegel. A study of the growth of the function, structure, and criterion of knowledge through the English School and Kant. For Senior College and Graduate students.

Autumn Quarter; 11:00
ASSOCIATE PROFESSOR MOORE

36. **Hegel's Logic.**—This course presupposes a fundamental study of Kant, and leads up to the study of modern logical theory. Wallace's translation of Hegel's *Logik* will be used in the class, and the lectures will follow the text as closely as possible. The aim of the course will be to enable the student to follow out as sympathetically as possible the structure of Hegel's thought, and recognize beyond this the problems that have appeared with Hegel's conception of Logic, and the limitations of Hegel's method in dealing with them.

Mj. Winter Quarter, 1908; 11:00
ASSOCIATE PROFESSOR MOORE

35. **The Theory of Logic.**—The course as a whole is designed to advance a critical and constructive theory of the logical functions: judgment, conception, and inference. They will be discussed in relation to one another, and the relation of thought to experience and reality will be considered. Texts: Lotze, Mill, and *Studies in Logical Theory.*

Mj. Spring Quarter; Mon., Th., 4:00-6:00
ASSOCIATE PROFESSOR MOORE

37. A. **Modern Metaphysics.** — Historical and constructive. A critical study of modern conceptions of Reality, with special attention to current views as exhibited in such works as Bradley's *Appearance and Reality*, Royce's *World and the Individual*, Ward's *Naturalism and Agnosticism*, Taylor's *Metaphysics.* For Graduate students.

M. First Term, Summer Quarter
Also as 2 Mj., 1908-9
ASSOCIATE PROFESSOR MOORE

IA, 35. **The Relations of Psychology to Philosophy.** An examination partly historical and partly logical, of the relations of psychology to the philosophical disciplines. For advanced Graduates.

Mj. Spring Quarter
PROFESSOR ANGELL

[Not to be given in 1907-8]

COURSES IN ETHICS AND PHILOSOPHY OF RELIGION.

40. **Evolution of Morality.**—A study of the origins of Morality in primitive tribal life, including the objective factors of group control, custom, political, family, and religious institutions, and subjectively the development of a standard, and of responsibility. For Graduate students.

Mj. Autumn Quarter; 8:30
PROFESSOR TUFTS

41. **Seminar.—The Fundamental Ethical Concepts.** A historical and critical study of the leading ethical concepts: Good, Obligation, Nature and Natural Law, Right, Conscience, Self-Denial, Love, Justice, Moral Sense, Sympathy, Utility, Freedom, the Kingdom of Ends, Value, Self-Realization. The course will thus embrace a history of ethical theory, but without rigid adhesion to chronological order where this would prevent a continuous study of a given concept.

Mj. Winter Quarter
PROFESSOR TUFTS

43. **History of Political Ethics.**— This course will embrace the topics included historically under the Philosophy of the State and the Philosophy of Law, together with a study of the ethical conceptions which have grown out of social and political organization. The political theories of Plato and Aristotle, the Roman and Renaissance conceptions of law of nature, the eighteenth-century conception of natural rights, the ethical concepts of justice and rights, and the recent opposing socialistic and individualistic theories will be considered.

Mj. Spring Quarter; 8:30
PROFESSOR TUFTS

44. **The Psychology of Ethics.**— This course will discuss the part played by the psychic processes of the individual, such as impulse, desire, effort, deliberation, and choice in the constitution of moral conduct. For Graduate students.

Mj. Autumn Quarter, 1908
PROFESSOR TUFTS

45. **Social Ethics.**— This course will discuss the ethical problems involved in social organization and progress, especially the adjustment to each other of the ethics of community life and individual freedom. The elements of the Philosophy of Law and of the State will be presented. For Graduate students.

Mj. Winter Quarter, 1909
PROFESSOR TUFTS

47. **Logic of Ethics.**—Essentially an advanced course in the theory of Ethics. The central problem of the course will be the outlining of a logical method of procedure adaptable in actual prac-

tice to the solution of concrete moral problems. The main concepts of ethical theory, such as Responsibility, Obligation, Merit; Egoism, Altruism, Sympathy; Motive, Intention, Standard, and Ideal will be studied in their methodological significance, and a similar analysis will be undertaken of the leading types of ethical theory.

Lectures and discussion of selected readings.
M. First Term, Summer Quarter; 11:30
PROFESSOR STUART

VI, 53. **The Family.**—A genetic and ethical treatment primarily for graduate students.
Mj. Autumn Quarter; 11:00
PROFESSOR HENDERSON

VI, 96. **The Ethics of Sociology.**—An exhibit of the meaning of sociological analysis for positive ethics. Mj. Spring Quarter; 9:30
PROFESSOR SMALL

IA, 13. **Social Psychology.** Mj. Winter Quarter
PROFESSOR MEAD

IA, 19. **Psychology of Religion.**
Mj. Summer and Spring Quarters
DR. AMES

COURSES IN ÆSTHETICS

NOTE.—See also VI. 24., and XVI.

7. **Æsthetics.**—An introduction to the history and theory of æsthetics. The two aspects of the æsthetic field, viz.: appreciation, or criticism, and artistic production will be analyzed, and their leading categories studied with reference both to their psychological origin, and to their historic relations in the development of art. For the Senior Colleges.
Mj. Spring Quarter; 9:30
PROFESSOR TUFTS

Prerequisite: *Introductory Psychology.*

COURSES IN THE HISTORY OF EDUCATION

NOTE.—See also Course 81.

60. **History of Education.**—Ancient times to Charlemagne.
Mj. Autumn Quarter. For the Senior Colleges; 12:00
ASSOCIATE PROFESSOR OWEN

61. **History of Education, Modern Period.**—The main emphasis of the course is laid on the development of educational theory and practice as influenced by the work and writings of the foremost educators of the modern period. The works of the writers selected will form the basis of the course. Summer Quarter, 1907; 10:30
Winter Quarter, 1908; 12:00
ASSOCIATE PROFESSOR OWEN

64. **Education in the United States.**—A study of the development of Education in the United States, with special emphasis on social conditions, outside influences, important leaders, present day tendencies and theories. For Graduate students; open to Senior College students with two majors in Education.
Mj. Spring Quarter; 12:00
ASSOCIATE PROFESSOR OWEN

65. **Education in the United States in the XIXth Century.**—The course will deal particularly with the *problems* of education during the period named, with special reference to the social, political, and philosophic ideas underlying the attempts at their solution. Effort will be made to set forth the phases of educational theory of the century as developed and put into practice in America.

The course will be conducted by lecture and report. The bibliography of the main sources will be presented, and all the work of the student will be based on these sources. For Graduate students. Summer Quarter; 11:30
ASSOCIATE PROFESSOR OWEN

67, 68. **Seminar in the History of Education.**
2Mj. Winter and Spring Quarters
ASSOCIATE PROFESSOR OWEN

COURSES IN EDUCATIONAL PSYCHOLOGY AND MENTAL DEVELOPMENT

70. **Psychology applied to Education.**—The discussion of psychological problems which have reference to education. Autumn Quarter; 8:30
ASSISTANT PROFESSOR GORE

72. **Genetic Psychology.**—A study of the beginnings and development of intellectual life in animals, children, and races, with a consideration of the dominant activities at different stages of development, and of the bearing of this upon the general theory and practice of education. General psychology is a prerequisite, and some knowledge of biology is desirable as a preparation. First Term, Summer Quarter; 2:30
MR. KIRKPATRICK

73. **Genetic Psychology.**—Problems, methods, and

data in the psychological growth of children and youth. Mj. Winter Quarter; 8:30
ASSISTANT PROFESSOR GORE
Prerequisite: *Elementary Psychology.*

74. **Special Problems in Genetic Psychology.**—Designed for those who are prepared to undertake investigations involving observation and study of school children. The course may be taken only after conference with the instructor. For graduate students. Mj. Winter Quarter
ASSISTANT PROFESSOR GORE
[Not to be given in 1907–8]

VI, 27. **Mental Development of the Race.**
Mj. Autumn Quarter; 8:30
M. First Term, Summer Quarter
ASSOCIATE PROFESSOR THOMAS
See Department of Sociology.

75. **Individual Psychology.**—Research and observation with respect to types of psychological temperament, capacity, etc., with special reference to methods of study and classification of children. Mj. Winter Quarter; 8:30
ASSISTANT PROFESSOR GORE
[Not to be given in 1907–8]

76. **Child-Study.**—The course will follow in general the outline of the author's *Child Study.* Attention will be given to instincts and to expressional and intellectual development both in themselves and with reference to school practice. Individuality, abnormalities, and methods of child study will be treated in relation to school conditions.
M. First Term, Summer Quarter; 1:30
MR. KIRKPATRICK

77. **The Psychology of Thinking.**—A detailed study of a special topic in Educational Psychology from the genetic and functional points of view. The course will involve the discussion of the following problems: the conditions under which consciousness assumes the mode of thinking; the function of thinking; comparison of the thinking processes of the child and the trained adult; the development and significance of the various elements of technique which mark the progress of the child from the simpler modes of thinking to the more efficient and highly controlled type; the bearing of these discussions upon the appropriate materials to be selected and the proper methods to be employed in training the child to think during the various stages of his development.
Prerequisite: *Elementary Psychology.*
M. Second Term, Summer Quarter; 2:30
DR. MILLER

78. **The Psychology of the Educational Process.**—A critical and constructive study of selected problems bearing upon educational practice. Feeling, will, habit, attention, apperception, and similar topics will be discussed. For Graduate students.
M. First Term, Summer Quarter; 9:30
PROFESSOR ANGELL

79. **Educational Psychology.**—Advanced courses. A study of exceptional types of mental development, and their education, including those somewhat above, as well as those somewhat below, the more commonly accepted norms of growth. For Graduate students. Open after conference with the instructor. Mj. Spring Quarter; 8:30
ASSISTANT PROFESSOR GORE

COURSES IN ADMINISTRATIVE AND SOCIAL ASPECTS OF EDUCATION

80. **Problems in Secondary Education.**—Present day ideals in education. The moral element in education. Adolescence. The high school curriculum. Arts and technology. Electives. The extension of the high-school course by the addition of two years. The certificate and entrance examinations systems. The social organization of the high school. Athletics. The school and the community. On sending boys and girls to college.
M. Second Term, Summer Quarter; 8:00
Also as Mj. Spring Quarter
PROFESSOR BUTLER

81. **The Schools of Germany, England, and the United States.**—The course traces the historical development of existing systems of elementary and secondary education as expressions of the religious, social, and industrial ideals that from time to time have dominated the people, with especial emphasis upon the influence on public education, of ecclesiasticism, humanism, realism, and nationalism. The marks which these schools have in common, as well as those which differentiate them, are noted, and a study is made of present tendencies.
M. First Term, Summer Quarter; 8:00
Mj. Autumn Quarter; 9:30
PROFESSOR BUTLER

82. **The School and the Community.**—The course discusses education as training for social efficiency; the school as one of several agencies for such training; the function of the school as affected by modern social conditions; the formation of social and moral habits; the social organization of the school; the "many-sided interest;" industrial training in relation to social ideals and habits; education as discovery of the individual; co-operation between the school and the community: in civic improvement, in the use of libraries, in parents' associations. The schools of Chicago will be studied, and reports made regarding schools elsewhere, with which students are acquainted.

M. First Term, Summer Quarter; 9:00
PROFESSOR BUTLER

84. **School Administration and Supervision.**—For superintendents, principals, and other students of education. The purpose of this course is to present systematically the principles, methods, and devices applicable to the organization, administration, supervision, and general management of school systems and of schools, in the light of the science and art of education.

M. Second Term, Summer Quarter; 8:00
SUPERINTENDENT CHANCELLOR

83. **School Management.**—For principals, supervisors, and teachers of elementary schools. The purpose of this course is to present in detail the particular problems of the city and the suburban graded school, including kindergartens, ungraded classes, and special elementary schools. These problems of management will be discussed in the light of the principles of general state, county, and city administration and of modern psychology, sociology, and pedagogy. The course is intended to be essentially practical.

M. Second Term, Summer Quarter; 10:30
SUPERINTENDENT CHANCELLOR

85. **The Teaching of Science in the Secondary School.**—Psychological study of the attitude of the child in the secondary school toward his surrounding physical environment; the necessity of the child's getting a hold upon this world as a whole before the separate sciences can be taken up; the method by which the problems of these different sciences can be brought out; the scope and import of the study of these sciences during the high school period, in reference both to the child's immediate development, and his later study and attitude toward them; the fundamental importance of science in giving the high school child his method and point of view.

PROFESSOR MEAD

[Not to be given in 1907–8]

VI, 100. **Organization of Religious Education.**

Mj. Winter Quarter; 11:00
PROFESSOR HENDERSON

COURSES IN EDUCATIONAL THEORY

NOTE.—See also Course 85.

90. **Philosophy of Education.**—The point of view will be that of the gradual socialization of the child, and the part which education plays in this. Both formal and informal education will be considered, especially in their relation to each other. On the one side the development of the child will be considered as the justification for a psychological theory of education, while on the other side the demands of the society into which the child is entering, will suggest the sociological theory. The inadequacies of each will be indicated, and the necessity of replacing them by a social conception of education which can recognize both the child and society at once. The chief features of present school practice and theory will be criticised from this standpoint.

Mj. Spring Quarter; 9:30
PROFESSOR MEAD

92. **Philosophic Bases of Modern Education.**—A comparative study of the philosophic and educational development beginning with Bacon and Comenius, with special stress upon the Kant-Herbart period. The reading for the course will be largely from the writings of the authors discussed, supplemented by Windelband's *History of Philosophy* and Monroe's *History of Education*. The course presupposes elementary psychology and a general acquaintance with the history of modern philosophy and education.

Mj. Winter Quarter
ASSOCIATE PROFESSOR MOORE

93. **Principles of Education.**—The aim, meaning, methods, and contents of education are considered from the point of view of human capacities and values, and their evolution in interaction with natural and social environment. Individual development and social progress, the intellectualistic and the voluntaristic views of mind and character, current theories of discipline, interest, culture, correlation or coördination of subjects are analyzed.

Autumn Quarter; 3:00
PROFESSOR TUFTS

IA. THE DEPARTMENT OF PSYCHOLOGY

OFFICERS OF INSTRUCTION

A. INSTRUCTORS ATTACHED TO THE DEPARTMENT OF PSYCHOLOGY

JAMES ROWLAND ANGELL, A.M., *Professor and Head of the Department of Psychology; Director of the Psychological Laboratory.*

JOHN BROADUS WATSON, Ph.D., *Instructor in Experimental Psychology.*

WALTER VAN DYCK BINGHAM, A.B., *Assistant in Psychology.*

B. INSTRUCTORS IN OTHER DEPARTMENTS OFFERING INSTRUCTION IN THIS DEPARTMENT

GEORGE HERBERT MEAD, A.B., *Professor of Philosophy.*

WILLIAM ISAAC THOMAS, Ph.D., *Associate Professor of Sociology.*

ADDISON WEBSTER MOORE, Ph.D., *Associate Professor of Philosophy.*

WILLARD CLARK GORE, Ph.D., *Assistant Professor of Psychology.*

EDWARD SCRIBNER AMES, Ph.D., *Instructor in Philosophy.*

EDWIN ASBURY KIRKPATRICK, B.Sc., Ph.M., *Department of Psychology and Child Study, State Normal School, Fitchburg, Mass.; Lecturer on Education* (Summer Quarter, 1907).

IRVING EDWARD MILLER, Ph.D., *State Normal School, Milwaukee, Wis.; Lecturer on Education* (Summer Quarter, 1907).

FELLOWS, 1906–7

JUNE DOWNEY, A.B.
GRACE FERNALD, A.B.
JOSEPH WILLIAM HAYES, A.B.
JOSEPH PETERSON, S.B.
FLORENCE RICHARDSON, A.B.
CLARENCE STONE YOAKUM, A.B.

INTRODUCTORY

The courses in the Department are planned with three purposes in view: (1) to meet the needs of undergraduate students who desire an intelligent acquaintance with the general principles of Psychology and their bearing upon the larger social and scientific interests of modern life; (2) to afford adequate discipline for students who wish to employ Psychology as a basis for higher work in philosophy, education, and the social sciences; (3) to furnish a sound and symmetrical training for teachers, investigators, and specialists in the various branches of psychological science.

The Fellowships at the disposal of the Department are intended for persons who give promise of distinction in research work.

Candidates for the Doctor's degree in Psychology will be required in all cases to have the equivalents of Courses 2–5 in the Department of Philosophy. When the principal work falls within the lines of Experimental Psychology, or Comparative Psychology, the candidate will be expected to have the equivalents of the elementary courses in Neurology and either Physiology or Zoölogy.

Students in other departments, who expect to make Psychology a secondary subject for any of the higher degrees should consult with the Head of the Department, immediately after entering upon residence. The amount of work required in such cases depends upon the previous training of the candidate. From six to nine Majors are commonly necessary.

Students are required to pass an examination in French and German before they can be formally enrolled as candidates for the Doctorate.

The libraries of the Departments of Philosophy and Psychology contain the more important works on logic, psychology, the history of philosophy, æsthetics, ethics, and sets of the philosophical and psychological journals.

The meetings of the Journal Club are designed to keep students in touch with the best contemporary work.

The Psychological Laboratory occupies a building of its own at 5704 Ellis Avenue. The extensive collection of apparatus is primarily designed to afford thorough training in accepted methods of investigation. New apparatus required for research work is promptly supplied.

COURSES OF INSTRUCTION

Introductory Courses

Course 1 in the Department of Psychology is required for the Bachelor's degree of all students in the Colleges of Arts, Literature and Science. It may be taken by students in the Junior Colleges who have completed twelve Majors of work.

1. **Psychology.**—For the Senior Colleges. Repeated every Quarter. Mj. Every Quarter.

Summer Quarter; 9:00
Dr. Watson
Autumn Quarter, 3 sections: 8:30, 11:00, 2:00
Dr. Watson

Winter Quarter; 8:30

Spring Quarter; 9:30

Note.—This course is a prerequisite for all other courses in the Department.

2, 3, 4. **Experimental Psychology.**—Training Course. This course is designed to afford students preliminary training for independent research and for teaching this branch. It is distinctly a laboratory course. Students specializing in Psychology are advised to take this course immediately after the completion of Course 1. The course may be entered at the beginning of any of the three Quarters. The work is, however, closely connected, and the Department strongly recommends adherence to the regular sequence, as indicated in the course numbers.

3Mj. Autumn, Winter, and Spring Quarters
Lectures: 2:00–3:00.
Laboratory work: 2:00–4:00.
Dr. Watson

Note.—Lectures and Laboratory work occur on different days.

Course 2: Will be given to the study of visual and auditory sensations, introduced by a general presentation of psychological methods.
Autumn Quarter
Dr. Watson

Course 3: Will be devoted to the study of cutaneous, kinæsthetic, gustatory, and olfactory sensations.
Winter Quarter
Dr. Watson

Course 4: Will consider the application of experimental methods to the study of the more complex processes of consciousness.
Spring Quarter
Dr. Watson

5. **Outline of Experimental Psychology.**—Lectures and class demonstrations illustrating the scope and principal results of experimental methods in psychology. M. or Mj. Summer Quarter; 8:00
Dr. Watson

Comparative, Social, Educational, and Genetic Courses

10. **Experimental Comparative Psychology.**—Work in the laboratory, and conferences. Senior College and Graduate students. Hours to be arranged. Open after consultation with instructor.
Mj. Spring Quarter
Dr. Watson

11. **Child Study.**—The course will follow in general the outline of the author's *Child Study.* Attention will be given to instincts and to expressional and intellectual development both in themselves and with reference to school practice. Individuality, abnormalties, and methods of child study will be treated in relation to school conditions.
M. First Term, Summer Quarter; 1:30
Mr. Kirkpatrick

11A. **The Psychology of Thinking.**—A detailed study of a special topic in educational psychology. The conditions under which thinking appears, the transition from the simple to the more complex modes, the methods and materials appropriate to the training of thinking, etc., will be discussed.
M. Second Term, Summer Quarter; 2:30
Dr. Miller

12. **Development of Mind in the Race.**—Formulation of habit in the tribal stage. Relation of the psychic life of the group to the group activities. Instruction and discipline of children by the parents and by the group. Educational meaning of initiation, secret societies, and tapu. Animistic beliefs and practices, and the influence of analogy, suggestion, and hypnotism in the formation of mind. Language and number. Imitation, invention, and genius. Comparison of the mental traits of different races, epochs, and social classes, and an estimate of the nature of the psychic interval between the natural and the culture races.
M. First Term, Summer Quarter; 11:30
Mj. Autumn Quarter; 8:30
Associate Professor Thomas

13. **Social Psychology.**—The discipline will be treated from two points of view. First the psychology used by the sociologists and historians, with especial reference to Baldwin, Cooley, Giddings,

and Small. Second, the psychological analysis of the contents of consciousness whose changes escape the introspection of the individual but are revealed in the development of language, myth, and religion, with especial reference to Wundt's *Comparative Psychology*. For Senior College and Graduate students.

Mj. Winter Quarter; 11:00
PROFESSOR MEAD

14. **Psychology Applied to Education.**—The discussion of psychological problems which have reference to education.

Mj. Autumn Quarter; 8:30
ASSISTANT PROFESSOR GORE

15. **Genetic Psychology.**—Problems, methods, and data in the psychological growth of children and youth. For Senior College and Graduate students. Mj. Winter Quarter; 8:30
ASSISTANT PROFESSOR GORE

Prerequisite: *Elementary Psychology.*

16. **Educational Psychology.**—Advanced course. A study of exceptional types of mental development, and their education, including those somewhat above, as well as those somewhat below, the more commonly accepted norms of growth. For Graduate students. Open after conference with the instructor. Mj. Spring Quarter; 8:30
ASSISTANT PROFESSOR GORE

17. **Genetic Psychology.**—A study of the beginnings and development of intellectual life in animals, children, and races, with a consideration of the dominant activities at different stages of development, and of the bearing of this upon the general theory and practice of education. General psychology is a prerequisite, and some knowledge of biology is desirable as a preparation.

M. First Term, Summer Quarter; 2:30
MR. KIRKPATRICK

18. **The Psychology of the Educational Process.**—A critical and constructive study of selected problems bearing upon educational theory and practice. Habit, attention, feeling, and similar topics will be discussed.

M. Second Term, Summer Quarter; 10:30
PROFESSOR ANGELL

19. **Psychology of Religion.**—A study of the typical phases of the religious consciousness.

Mj. Spring Quarter; 12:00
DR. AMES

ADVANCED EXPERIMENTAL COURSES

20, 21, 22. **Experimental Psychology.**—Advanced course. This course is primarily intended for purposes of original investigation. Selected problems will be assigned to individual students. It may, however, be employed for securing technical drill in advanced methods either within the field of qualitative or quantitative experimentation upon human consciousness, or within that of animal psychology.

3Mj. Autumn, Winter, and Spring Quarters
PROFESSOR ANGELL AND DR. WATSON

23. **Psychophysic Methods.**—Lectures and laboratory work. The more familiar forms of procedure for quantitative study of the psychical processes will be discussed and illustrated.

Mj. Winter Quarter; 8:30
DR. WATSON.

Prerequisite: *1Mj. in Experimental Psychology.*

ADVANCED THEORETICAL COURSES

30. **History of British Psychology.**—A critical and expository examination of the more important writers. Mj. Autumn Quarter; 9:30
PROFESSOR ANGELL

31. **History of German Psychology.**—The principal German psychologists since Leibnitz will be discussed and criticised. Ability to read German is extremely desirable for students who intend to take this course.

Mj. Winter Quarter; 9:30
PROFESSOR ANGELL

32. **Contemporary American and French Psychologists.**—Selected works of representative writers will be studied with special reference to the securing of information concerning the origins and national traits of French and American psychology. For Graduate students.

33. **Unsettled Questions in Psychology.**—A critical and constructive discussion of live problems; e. g., the psychology of judgment, the nature of meaning, the elements of feeling, etc. For advanced Graduate students.

Mj. Autumn Quarter; 9:30
PROFESSOR ANGELL

[Not to be given in 1907–8]

34. **The Psychology of the Educational Process.**—A critical and constructive study of selected problems bearing upon educational theory and practice. Feeling, will, habit, attention, apperception, and similar topics will be discussed. For Graduate students.

Mj. Winter Quarter; 9:30
PROFESSOR ANGELL

[Not to be given in 1907–8]

35. **The Relations of Psychology to Philosophy.**—An examination, partly historical and partly logical, of the relations of psychology to the philosophical disciplines. For advanced Graduate students. Mj. Spring Quarter; 9:30
PROFESSOR ANGELL

[Not to be given in 1907–8]

36. **The Problems of Functional Psychology.**—An examination of the standpoint and methods of functional psychology.
M. First Term, Summer Quarter; 9:00
PROFESSOR ANGELL

39. **Journal Club.**—Autumn, Winter, and Spring Quarters. Credit will be given in accordance with the amount of work performed. Hours to be arranged.

II. THE DEPARTMENT OF POLITICAL ECONOMY

OFFICERS OF INSTRUCTION

JAMES LAURENCE LAUGHLIN, PH.D., *Professor and Head of the Department of Political Economy.*
HERBERT JOSEPH DAVENPORT, PH.D., *Associate Professor of Political Economy.*
LEON CARROLL MARSHALL, A.B., *Assistant Professor of Political Economy.*
WILLIAM HILL, A.M., *Assistant Professor of Political Economy.*
JOHN CUMMINGS, PH.D., *Assistant Professor of Political Economy.*
ROBERT FRANKLIN HOXIE, PH.D., *Instructor in Political Economy.*
CHESTER WHITNEY WRIGHT, PH.D., *Instructor in Political Economy.*
TREVOR ARNETT, A.B., *Lecturer on Accounting.*
ERNEST RITSON DEWSNUP, A.M., *Professorial Lecturer on Railways, and Curator of the Museum of Commerce.*

FELLOWS, 1906–7

SPURGEON BELL, S.B.
DONALD ELLIOTT BRIDGMAN, A.B.
HOWARD GRAY BROWNSON, A.B.
EUGENE BRYAN PATTON, A.B.
WILLIAM WALKER SWANSON, A.B.

INTRODUCTORY

The work of the Department is intended to provide, by symmetrically arranged courses of instruction, a complete training in the various branches of economics, beginning with elementary work and passing by degrees to the higher work of investigation. A chief aim of the instruction will be to teach methods of work, to foster a judicial spirit, and to cultivate an attitude of scholarly independence.

The Fellowships offered by the Department of Political Economy are independent of those offered by the allied Departments of History, Political Science, or Sociology. Appointments will be made only on the basis of marked ability in economic studies and of capacity for investigation of a high character. It is a distinct advantage to candidates to have been one year in residence at the University. Candidates for these Fellowships should send to the President of the University a record of their previous work and distinctions, degrees and past courses of study, with copies of their written or printed work in economics. Applications should be sent in not later than March 1 of each year. Appointments will be made during the first week of April.

Fellows are forbidden to give private tuition, and may be called upon for assistance in the work of teaching in the University or for other work; but in no case will they be expected or permitted to devote more than one-sixth of their time to such service.

In addition, one Graduate Scholarship, yielding a sum sufficient to cover the annual tuition fees, is awarded to the best student in economics just graduated from the Senior Colleges; and a similar Scholarship is given to the student graduating from the Junior Colleges who passes the best examination at a special test.

Candidates for the degree of A.M. will not be permitted to offer elementary courses in Political Economy as part of the work during the year's residence. The work of students taking Political Economy as a secondary subject for the degree of A.M. should include (1) the general principles of Economics (as contained in Courses 1 and 2, or an equivalent); (2) the history of Political Economy; and (3) the scope and method of Political Economy.

The work of candidates for the degree of Ph.D. taking Political Economy as a secondary subject should include, in addition to the above requirements for the degree of A.M., (1) Public Finance, and (2) some descriptive subject as, e. g., Money, or Tariff, or Railways, etc.; and the examination will be more searching than that for the degree of A.M. Nine majors will be required.

In all cases candidates should consult early with the Heads of the Departments within which their major and minor subjects are taken.

Before being admitted to candidacy for the degree of Doctor of Philosophy, in case Political Economy is chosen as the principal subject, the student must furnish satisfactory evidence to the Head of the Department that he has been well prepared in the following courses (or their equivalents at other institutions): History of Europe in the Seventeenth and Eighteenth Centuries (History 11); Europe in the Nineteenth Century (History 12); Later Constitutional Period of the United States; the Civil War and the Reconstruction (History 18); Comparative National Government (Political Science 11); Federal Constitutional Law of the United States (Political Science 32); Elements of International Law (Political Science 41); and Introduction to Sociology (Sociology 72).

As a means of communication between investigators and the public, the University issues monthly the *Journal of Political Economy*, the first number of which appeared in December of 1892. Contributions to its pages will be welcomed from writers outside as well as inside the University, the aim being not only to give investigators a place of record for their researches, but also to further in every possible way the interests of economic study throughout the country. The *Journal* will aim to lay more stress than most other journals upon articles dealing with practical economic questions. The editors will welcome articles from writers of all shades of economic opinion, reserving only the privilege of deciding as to merit and timeliness.

Longer investigations, translations of important books needed for American students, reprints of scarce works, and collections of materials will appear in bound volumes in a series of "Economic Studies of the University of Chicago," of which the following have already been issued:

No. I. *The Science of Finance*, by Gustav Cohn. Translated by Dr. T. B. Veblen, 1895, 8vo, pp. xi+800. Price, $3.50.

No. II. *History of the Union Pacific Railway*, by Henry Kirke White, 1895, 8vo, pp. 132. Price $1.50.

No. III. *The Indian Silver Currency*, by Karl Ellstaetter. Translated by J. Laurence Laughlin, 1896, 8vo, pp. 116. Price $1.25.

No. IV. *State Aid to Railways in Missouri*, by John Wilson Million, 1897, 8vo, pp. 264. Price, $1.75.

No. V. *History of the Latin Monetary Union*, by Henry Parker Willis, 1901, 8vo, pp. ix+332. Price, $2.

No. VI. *The History of the Greenbacks with Special Reference to the Economic Consequences of Their Issue*, by Wesley Clair Mitchell, 1903, 8vo, pp. xiv+500. Price, $4 net.

No. VII. *Legal Tender:* A Study in English and American Monetary History, by Sophonisba P. Breckinridge, 1903, 8vo, pp. xvii+180. Price, $1.50, net.

The selection of the Economic Library has been made with great care, in order to furnish not only the books needed for the work of instruction in the various courses, but especially collections of materials for the study of economic problems. The University Library contains an unusually complete set of United States Documents, beginning with the First Congress. It is believed that ample provision has thus been made for the work of serious research. The work of the students will necessarily be largely carried on in the Economic Library, in the Law School Building, where will also be found the past as well as the current numbers of all the European and American economic journals.

The combined library facilities of Chicago are exceptional. The Public Library, maintained by a large city tax, the Newberry Library, and the Crerar Library, with a fund of several millions of dollars, which has provided books on Political Economy, will enable the student to obtain material needed in the prosecution of detailed investigation.

For the convenience of those who wish to know the branches of economics in which especial advantages are offered by the Department, attention is called to the facilities afforded for specialization in several directions.

In view of the pressing importance of questions touching upon the rewards of labor and capital, an exceptional arrangement of courses dealing both with the underlying principles and the practical movements of the day have been prepared upon new and extended lines.

Opportunities for specialization in the field of money and banking have been offered in the past, but addi-

tional courses have been organized in order to permit a more thorough study in these subjects, both theoretical and practical, than has ever been possible before.

The University has equipped a laboratory for statistical research work in which students are given training in the collection and tabulation of statistical data, as well as in the scientific construction of charts and diagrams. The object of the work is to familiarize students with practical methods employed in government bureaus, municipal, state, and federal, in the United States and in other countries, and in private agencies of sociological and economic investigation. Men are trained to enter the service of such bureaus or agencies of social betterment as statisticians, capable of undertaking any work requiring expert statistical service. The Departments of Political Economy and of Sociology co-operate in the direction of statistical investigations.

COURSES OF INSTRUCTION

GENERAL

The courses are classified as follows:

Group I, Introductory and Commercial: Courses 1, 2, 3, 4, 5, 6.
Group II, Advanced Business Courses: Courses 7, 8, 9, 10, 11.
Group III, General Economic Field: Courses 20, 21, 22, 23, 24, 26, 27, 29–30, 31–32.
Group IV, Labor and Capital: Courses 40, 41, 42, 43, 44, 45, 46, 47, 48, 49.
Group V, Money and Banking: Courses 50, 51, 52, 53, 54.
Group VI, Railways: Courses 60, 61, 63, 64.
Group VII, Statistics: Courses 70, 71, 72.
Group VIII, Seminars: Courses 80, 81, 82.

Students are advised to begin the study of Economics in the last year of the Junior Colleges.

Senior College and Graduate Courses

Group II. Advanced Business Courses

7. **Insurance.**—This course will aim to cover those aspects of insurance important to the practical business man. The history and theory of insurance will be examined with especial emphasis given (1) to Life Insurance: the various forms of organization; theory of rates; the different combinations of contracts; loan and surrender values; dividends; distribution periods; (2) to Fire Insurance: the various forms of business organization; the terms and conditions of the insurance contract; the different forms of hazard, and the computation and combination of rates therefor; the theory of reserves; co-insurance; the problem of valued-policy laws; (3) the general principle of public supervision with regard to the different forms of insurance, and the wider question of public ownership.

Mj. Summer Quarter; 9:00

Associate Professor Davenport

8. **The Mathematics of Insurance.**—This course presupposes some acquaintance with the descriptive aspect of Insurance. The course is devoted particularly to the mathematical principles of Life Insurance. The necessary elements of the theory are selected from the theories of probability, finite differences, and interpolation. Applications are made in particular to the following problems: the examination of the different mortality tables and the basing of mortality rates thereon; the loading for expenses and reserves and the variations of premiums, as affected by the prospective earnings of investments; the computation of total reserves; the fixation of loan and surrender values and of paid-up insurance, whether by life or term extension; the computation of present and deferred annuities as affected by considerations of age, life, term, endowment, joint-life, and annuity policies.

Prerequisite: *Trigonometry and College Algebra* (Mathematical Courses 1, 2 or 1, 5 or 4, 5). See Mathematics, 9.

[Not to be given in 1907–8]

9. **Law of Insurance.**—Insurable interest in various kinds of insurance and when it must exist; beneficiaries; the amounts recoverable and valued-policies; representations; warranties; waiver and powers of agents; interpretation of phrases in policies; assignment of insurance. $5 extra is charged for this course.

Textbook: Wambaugh, *Cases on Insurance.* See Law School announcement.

Mj. Autumn Quarter (two hours), and First Term, Winter Quarter.

Associate Professor Bigelow

10. **Accounting.**—The interpretation of accounts viewed with regard to the needs of the business manager rather than those of the accountant: the formation and meaning of the balance sheet; the profit and loss statement and its relation to the balance sheet; the capital accounts, surplus, reserve, sinking funds; reserve funds, their use and misuse; depreciation accounts; other accounts appearing on credit side; assets; methods of valuation; confusing of assets and expenses; capital expenditures and operating expenses; capital assets, cash and other reserves.

Prerequisite: *The Course in Bookkeeping offered by the Department of Mathematics.*

Mj. Winter Quarter; 11:00
MR. ARNETT

11. **Special Problems in Accounting.**—(*a*) Bank accounting. (*b*) Auditing: the duties of an auditor; methods of procedure; practice; problems frequently met. (*c*) Appraisal and Depreciation. (*d*) Railway Accounting: a consideration of the principal features; determination of the four main divisions of expense; the relation between capital expenditures and profit and loss. (*e*) The Public Accountant: legal regulations; duties and methods; constructive work in devising a system of accounting to fit special needs; practice in comparison of various systems; the advantages of various devices, loose-leaf and card systems; voucher system; cost keeping.

Conducted by experts from Chicago institutions.

[Not to be given in 1907–8]

GROUP III. GENERAL ECONOMIC FIELD

20. **History of Political Economy.**—Lectures, Reading, and Reports. This course treats of the development of Political Economy as a systematic body of doctrine; of the formation of economic conceptions and principles, policies, and systems. Both the history of topics and doctrines and that of schools and leading writers will be studied. The student will be expected to read prescribed portions of the authors bearing on cardinal principles. A special feature of the work will be a thorough study of Adam Smith and of Ricardo. Mj. Autumn Quarter; 11:00
DR. HOXIE

21. **Scope and Method of Political Economy.**—The course treats of the premises on which the analysis of economic problems proceeds, the range of problems usually taken up for investigation by economists, the methods of procedure adopted in their solution, the character of the solutions sought or arrived at, the relations of Political Economy to the other moral sciences, as well as to the influence of the political, social, and industrial situation in determining the scope and aim of economic investigation. Special attention is given to writers on method, as Mill, Cairnes, Keynes, Roscher, Schmoller, Menger. Mj. Winter Quarter; 11:00
DR. HOXIE

22. **Finance.**—A comprehensive survey of the whole field of public finance. The treatment is both theoretical and practical, and the method of presentation historical as well as systematic. The main emphasis is placed upon the study of taxation, although public expenditures, public debts, and financial administration are carefully studied.

Mj. Spring Quarter; 2:00
ASSOCIATE PROFESSOR DAVENPORT

23, 24. **Financial and Tariff History of the United States.**—As distinct from the study of agriculture (Course 26) and the history of the industrial development of our manufacturers (Course 6), this course will discuss *pari passu* the legislation and development of our fiscal as well as our protection policy. The economic causes and results of the American Revolution, the growth of our commercial relations, the management of the early war debts, the inauguration of our fiscal system, the early banks, the Independent Treasury system, the tariff policy before the Civil War, the fiscal history of the Civil War, our foreign trade policies, the growth of protectionism, and reciprocity treaties, will be among the topics discussed. The course will continue through two quarters, and is not open to those who are unwilling to give to it two quarters.

2Mjs. Autumn and Winter Quarters; 11:00
ASSISTANT PROFESSOR MARSHALL

26. **Problems of American Agriculture.**—Special attention will be given to the extension and changes of the cultivated area of the United States; the methods of farming; the influence of railways and population, and of cheapened transportation; the fall in value of eastern farm lands; movements of prices of agricultural products; European markets; competition of other countries; intensive farming; diminishing returns;

farm mortgages; and the comparison of American with European systems of culture.

Mj. Autumn Quarter; 9:30
ASSISTANT PROFESSOR HILL

27. **Colonial Economics.**—The economics of colonial administration, including some account of commercialism, past and present, and of modern trade theories of imperial federation, trade relations, financial policies and economic development and dependence of colonies. A brief historical account of American and foreign experience serves as introduction to a fuller consideration of economic problems involved in modern colonial administration. In the light of this experience study is undertaken of some economic problems which have arisen in Cuba, Porto Rico, Hawaii, and the Philippine Islands.

[Not to be given in 1907–8]

29, 30. **Oral Debates.** — Selected Economic Topics. Briefs. Debates. Criticism.

2M. Winter and Spring Quarters; Mon., 3:00–6:00.

ASSISTANT PROFESSOR HILL,
MR. CHANDLER, AND MR. GORSUCH

31, 32. **Argumentation.**—To be taken in connection with English 9.

2 hrs. a week. 2M. Autumn and Winter Quarters; Wed., 3:00.

MR. CHANDLER

GROUP IV. LABOR AND CAPITAL

40. **Theory of Value.**—After a brief preliminary survey of the discussions prior to Adam Smith, the cost-of-production theory, as developed at the hands of Ricardo, McCulloch, James Mill, Senior, J. S. Mill, and Cairnes is taken up for detailed study. Then the utility theory of value, as presented by Jevons and Austrian economists, is examined. Finally, the attempts made by such writers as Marshall, Dietzel, Pantaleoni, Clark, Patten, McFarlane, Hobson, etc., to frame a more satisfactory theory of value by combining the analysis of cost and of marginal utility, are reviewed.

Mj. Autumn Quarter; 8:30
ASSOCIATE PROFESSOR DAVENPORT

41 and 42. **Labor and Capital.**—Unsettled problems of distribution. The more abstruse questions of distribution will be considered. No student, therefore, can undertake the work of this course with profit who has not already become familiar with the fundamental principles. The course is open only to those who have passed satisfactorily Course 2, or who can clearly show that they have had an equivalent training. The subjects to be considered will be as follows: The wages-fund and other theories of wages, the interest problem, managers' profits, and allied topics. The discussion will be based upon selected passages of important writers. The study of wages for example, will include reading from Adam Smith, Ricardo, J. S. Mill, Longe, Thornton, Cairnes, F. A. Walker, Marshall, George, Böhm-Bawerk, Hobson, J. B. Clark, and others. Students will also be expected to discuss recent important contributions to these subjects in current books or journals.

PROFESSOR LAUGHLIN

[Not to be given in 1907–8]

43. **Economics of Workingmen.**—Continuing the study of distribution (Course 41), examination is here undertaken of social movements for improving the condition of labor, to determine how far they are consistent with economic teaching, and likely in fact to facilitate or to retard economic betterment of workingmen. Efforts to increase earnings through modification of the wages system itself, resort to legislation, and labor organization are discussed, with especial reference to their effect upon labor efficiency, earning capacity, and steadiness of employment. Other topics considered in this connection are workingmen's insurance; co-operation; profit-sharing; competition of women and children; industrial education; social-settlement work; consumers' leagues.

Mj. Autumn Quarter; 9:30
ASSISTANT PROFESSOR CUMMINGS

NOTE.—Although open in certain cases to students of Sociology and others who have had the equivalent of the economic Courses 1 and 2, this course can be taken to best advantage by those only who have already had Courses 41 and 42.

44. **Socialism.** — A history of the growth of socialistic sentiment and opinion as shown in the socialistic movements of the nineteenth century, and the position occupied by socialistic organizations of the present time. The course is in part historical and descriptive, in part theoretical and critical. The programmes and platforms of various socialistic organizations are examined and compared, and the theories of leading socialists are taken up in detail. Marx is given the chief share of attention, but other theoretical writers, such as Rodbertus, Kautsky, Bernstein, are also reviewed. The

factors which at the present time further or hinder the spread of socialism, and what are its chances of being carried through or of producing a serious effect upon the institutions of modern countries, are considered.

Mj. Spring Quarter; 11:00
Dr. Hoxie

45. **Organization of Business Enterprise—Trusts.**—A discussion of the growth of the conditions which have made large business coalitions possible, the motives which have led to their formation, the conditions requisite to their successful operation, the character and extent of the advantages to be derived from them, the drawbacks and dangers which may be involved in their further growth, the chances of governmental guidance or limitation of their formation and of the exercise of their power, the feasible policy and methods that may be pursued in dealing with the trusts. The work of the course is in large part investigation of special subjects, with lectures and assigned reading.

Mj. Autumn Quarter; 12:00
Dr. Wright

46. **Trade Unionism.**—This course will deal mainly with the development, strength, organization and federation, fundamental concepts, theories, aims, and practical methods of Labor Unions in the United States. The treatment will be descriptive, explanatory, and critical, but special effort will be made to explain the reasons for union organization and activities. Unionism abroad will be contrasted with Unionism in America wherever comparative study is likely to throw light upon the existing situation at home or to assist in forecasting the future. A special feature of the work will be first hand study of Unions and Union activities in Chicago.

Mj. Spring Quarter; 9:30
Dr. Hoxie

47. **The Labor Movement.**—An historical and comparative study of labor conditions in the United States and in foreign countries, and of the social and economic consequences to the wage earner of industrial development during the nineteenth century. Especial attention is devoted to the course of labor legislation which has in different countries accompanied industrial reorganization; to labor organization; methods of arbitration, conciliation, and adjustment; workingmen's insurance and provision for the unemployed; employer's liability, and other conditions affecting the economic status of labor.

Mj. Winter Quarter; 9:30
Assistant Professor Cummings

48. **The Legal Status of Labor.**—The labor contract; the liability of the employer to the employee and the fellow-servant doctrine; protective legislation; factory regulations, the labor of women and children; combinations of workmen, trades unions, strikes, boycotts, blacklists, and the use of injunction in labor disputes.

M. First Term, Summer Quarter; 2:30
Dr. Breckinridge

49. **Questions of Distribution.**—Following the course on Value, this course will take up the more difficult problems of distribution, such as the theory of interest, and the principles determining wages. Only those who have previously taken the course on value (Course 40) will be admitted.

Mj. Spring Quarter; 8:30
Associate Professor Davenport

Group V. Money and Banking

50. **Money and Practical Economics.**—An examination is first made of the principles of money, whether metallic or paper; then either the subject of metallic or paper money is taken up and studied historically, chiefly in connection with the experience of the United States, as a means of putting the principles into practice. Preliminary training for investigation is combined in this course, with the acquisition of desirable statistical information on practical questions of the day. The student is instructed in the bibliography of the subject, taught how to collect his data, and expected to weigh carefully the evidence on both sides of a mooted question. The work of writing theses is so adjusted that it corresponds to the work of other courses counting for the same number of hours. This course will be open to undergraduates.

Mj. Autumn Quarter; 12:00
Professor Laughlin

51. **Advanced Course in Money.**—After having been drilled in the general principles of money (Course 50), the student is given an opportunity to examine the more difficult problems of money and credit. Mj. Winter Quarter; 12:00
Professor Laughlin

52. **The Theory and History of Banking.**—The course will begin with a description of the functions of

a bank, followed by the history of Banking in the United States, including the First and Second Banks of the United States, the national banking system, state banks and trust companies. The salient points in the constitution and policy of the Bank of England, the Reichsbank, the Bank of France, and other great European banks will be taken up. A careful study will also be made of the banking systems of Scotland and Canada. The following points will be considered: note issue, deposit currency, loans, reserves, clearing-houses, the relation of banks to the government, the relation of banks to commercial crises, branch banking, and international exchange. Finally, a critical examination will be made of proposed modifications of the national banking system of the United States. Mj. Spring Quarter; 12:00

PROFESSOR LAUGHLIN

53. **Practical Banking.**—This course is designed to give the student who is preparing to become a banker a knowledge of the manner in which banking operations are conducted. The following topics will receive attention: the manner of organizing a bank, the duties of different officers and employees, the departments of a bank's work, the services that banks perform for the business man, the loan market, the rate of discount, the bill broker, the principles upon which loans are made, the credit department of a bank, the various kinds of security, the difference between negotiable instruments and other contracts, the forms of negotiable paper, the legal relationship of different parties to negotiable paper, dishonor and protest, the relation of banks to one another, operations of the clearing house, the relation of banks to the stock exchange, the financing of corporations, collections, transmission of money, foreign exchange, methods of bookkeeping.

[Not to be given in 1907–8]

54. **Commercial Crises.**—This course treats of the history and theory of crises. After a brief consideration of the earlier periods of depression, a detailed study will be made of the fluctuations of industry in the nineteenth century. The conditions preceding crises and the course of events during the periods of depression and subsequent revival will be investigated. The different factors popularly regarded as related to crises, such as the organization of industry, speculation, overinvestment, overproduction, the condition of the finances of the government, and the monetary system, will be analyzed. A careful study will be made of the operations of credit before and during periods of depression.

[Not to be given in 1907–8]

GROUP VI. RAILWAYS

60. **Railway Transportation.**—The economic, financial, and social influences arising from the growth of modern railway transportation, especially as concerns the United States, will be discussed. An account of the means of transportation developed in Europe and America during the early part of this century; the experiments of the states in constructing and operating canals and railways; national, state, and municipal aid to private companies; the rapid and irregular extension of the United States railway system; the failures of 1893; the reorganizations and consolidations since that time, with some attention to railway building in other countries, will form the historical part of the work. A discussion of competition, combination, discrimination, investments, speculation, abuse of fiduciary powers; state legislation and commissions, and the Inter-State Commerce Act, with decisions under it; and the various relations of the state, the public, the investors, the managers and the employees, will form the most important part of the work. This course gives a general view of the subject. Students who wish to continue the work by investigating special problems will have an opportunity to do so under Courses 61 and 62. Mj. Autumn Quarter; 2:00

ASSISTANT PROFESSOR HILL

61. **The Regulation of Railway Rates.**—A comparative study of the experience of the United States, Great Britain, Germany, France, Austria-Hungary, Russia, and Australia, made for the purpose of ascertaining: (*a*) whether the public regulation of railway rates leaves the railways sufficiently unhampered to enable them to develop trade and industry; (*b*) whether it secures more substantial justice for the producer and the trader than does the policy of leaving railway rates to adjust themselves.

Mj. Winter Quarter; 2:00

ASSISTANT PROFESSOR HILL

GROUP VII. STATISTICS

70. **Training Course in Statistics.**—The object of this course is to train students in the practical use of statistical methods of investigation. Stress is laid upon work done by students them-

selves in collecting, tabulating, interpreting, and presenting statistics of different orders. Members of the class are also required to make close, critical examinations of various publications of a statistical nature with a view to determining the accuracy of data and the legitimacy of inferences drawn. Students engaged in any special work of investigation are encouraged to deal mainly with data relevant to their subjects. To others special topics are assigned. It is hoped that the course may prove useful to all students whose work, in whatever department it may lie, whether in history, sociology, or in other fields of study, is susceptible of statistical treatment. Courses 70 and 72 will be given in alternate years.

Mj. Autumn Quarter; 8:30
ASSISTANT PROFESSOR CUMMINGS

71. **Statistics of Wages in the Nineteenth Century.**—In this course effort is made to determine what has been the actual movement of wages during the nineteenth century. An examination is undertaken of the more important statistical investigations of wage-movements which have been made from time to time by economists, government bureaus, or other agencies, in specific industries; the object being to determine the extent to which the wage-earner has in general participated in the benefits of industrial progress and of the increased economic efficiency of labor and capital. The course is intended to be informational and descriptive in character, as well as to give training in the collection and tabulation of statistical data.

Mj. Winter Quarter; 8:30
ASSISTANT PROFESSOR CUMMINGS

72. **Demography.**—Statistical methods are illustrated by studies in population data, comprising the construction of actuarial tables; determination of the economic value of populations; economic aspects of the data of criminality and pauperism; growth and migration of population in the United States as "labor force," including statistics of the negro race. The development of official statistics of population, and the demographic work of government bureaus is taken up historically and critically. The object of the course is to give students training in handling population data as a basis of sociological and economic speculation, and to point out the bearing of such data and their importance in the historical development of economic theories.

ASSISTANT PROFESSOR CUMMINGS
[Not to be given in 1907–8]

GROUP VIII. THE SEMINARS

80, 81, 82. **Economic Seminar.**

3Mj. Autumn, Winter, and Spring Quarters
PROFESSOR LAUGHLIN

III. THE DEPARTMENT OF POLITICAL SCIENCE

OFFICERS OF INSTRUCTION

HARRY PRATT JUDSON, A.M., LL.D., *Professor of Comparative Politics and Diplomacy, and Head of the Department of Political Science.*
ERNST FREUND, J.U.D., PH.D., *Professor of Jurisprudence and Public Law.*
CHARLES EDWARD MERRIAM, PH.D., *Associate Professor of Political Science.*

FELLOW, 1906-7

SAMUEL MACCLINTOCK, PH.B.

INTRODUCTORY

Political Science, as treated in the University of Chicago, relates to the organization and working of the state. It covers the philosophy of the state, the structure and working of government, international law and diplomacy, and certain fundamental branches of municipal law.

The courses are planned with two purposes: (1) to give such knowledge and training as it is believed should be a part of liberal education; and (2) to afford advanced work either for those who desire to become students of Law, or for those who need a knowledge of Political Science for other ends, whether for teaching, for journalism, or for the intelligence with regard to public affairs which should belong to an educated citizen.

The introductory course may be taken as an elective by students who have finished nine majors in the Junior Colleges. For advanced work, students will be expected (1) to have had the introductory course, or its equivalent; (2) to have a reading knowledge of French, German and Latin; and (3) to be familiar

with the outlines of general history, and with the details of modern political history. English and American constitutional history, and the fundamental courses in the Departments of Political Economy and Sociology, are especially recommended.

One Fellowship is given for the year 1906–7. Appointments are made in accordance with the general regulations of the University.

The Departmental Library is in the Law School building, with the libraries of the Departments of Philosophy, Political Economy, History, and Sociology, and with the Law library.

Attention is called to a complete set of United States documents, some 5,000 volumes, in the General Library of the University.

The Chicago Public Library, the Crerar Library, and the Newberry Library afford much aid, and through the courtesy of the officers of the Chicago Law Institute, students have been able to use the valuable collection in that Library.

The Club of Political Science meets bi-weekly for the discussion of topics of general interest.

Such work as seems worthy of preservation and distribution will be published from time to time in a series of monographs. For the present it is intended that the series shall relate to the city of Chicago. The following monographs have thus far been published:

The Constitution of the Argentine Republic. The Constitution of the United States of Brazil; with Historical Introduction and Notes by Elizabeth Wallace, Docent in Spanish and in Latin-American Institutions in the University of Chicago. Chicago: The University of Chicago Press, 1894.

The Legal Nature of Corporations. By Ernst Freund, J.U.D., Professor of Jurisprudence in the University of Chicago. Chicago: The University of Chicago Press, 1897.

The Charters of the City of Chicago. Part I: The Early Charters. By Professor Edmund Janes James, Ph.D. Chicago: The University of Chicago Press, 1898.

The Charters of the City of Chicago. Part II. By Professor Edmund Janes James, Ph.D. Chicago: The University of Chicago Press, 1899.

In the University Law School the following courses are required of candidates for the Doctorate of Philosophy in the Department of Political Science: Contracts (the first half of the course), Torts, General Constitutional Law, Federal Constitutional Law, Administrative Law, Municipal Corporations.

COURSES OF INSTRUCTION

11. **Comparative Politics, I: Comparative National Government.**—A comparative study of the constitutions and constitutional law of leading nations, as France, Germany, Switzerland, Great Britain, and the United States. For the Graduate Schools and the Senior Colleges.

Professor Judson

Prerequisite: *Course 1, or its equivalent.*

[Not to be given in 1907–8]

12. **Comparative Politics, II: Federal Government.** The principal federations of recent times are studied—the United States, Germany, Switzerland, Canada, Australia, the Confederate States. For the Graduate Schools; open to Seniors with two Majors' credit in Political Science.

Professor Judson

[Not to be given in 1907–8]

13. **Comparative Politics, III: State Governments in the United States.**—A comparative study of the structure and workings of the governments of the various states. The historical development of state constitutions; suffrage qualifications; organization and action of the state legislature, executive, and judiciary; amendment of state constitutions; leading tendencies in state administration. For the Graduate Schools; open to Seniors. Mj. Spring Quarter; 8:30

Associate Professor Merriam

14. **Comparative Politics, IV: Municipal Government.**—A comparative study of the modern municipality, American and European, in its political aspects. Municipal home rule; popular participation in city government; the municipal legislature; the executive; administration of public health and safety, charities and corrections, schools, public works, and finances. For the Senior Colleges.

Mj. Winter Quarter; 11:00

Associate Professor Merriam

15. **Comparative Politics, V: The Government of Colonies.**—A study of the political development of the European colonial system in the nineteenth century. European control in the far east, in Africa, and in Oceania. For the Gradu-

ate Schools; open to Seniors with two majors credit in Political Science.

PROFESSOR JUDSON

[Not to be given in 1907–8]

16. **The Development of Civil Liberty.**—A study of restrictions on government, from Magna Charta to present constitutions. For the Graduate Schools; open to Seniors with four majors credit in Political Science.

½Mj. Winter Quarter; 9:30

PROFESSOR JUDSON

GOVERNMENTS

17. **The Government of Great Britain.**—A somewhat detailed study, historical and descriptive, of the British system. For the Graduate Schools; open to Seniors with two majors' credit in Political Science. PROFESSOR JUDSON

[Not to be given in 1907–8]

18. **The Government of France.** — A somewhat detailed study of the French system, as it has developed since the Revolution. For the Graduate Schools; open to Seniors with two majors' credit in Political Science.

PROFESSOR JUDSON

[Not to be given in 1907–8]

19. **The Government of Germany.** — A study of the German Empire.

ASSOCIATE PROFESSOR MERRIAM

[Not to be given in 1907–8]

19A. **Recent Russian Politics.**—A study of the political organization of the monarchy in the light of late developments.

Mj. Winter Quarter; 2:00

MR. S. N. HARPER

20. **The Government of Chicago and Illinois.**—A detailed study of the structure and workings of the government of Chicago, Cook County, and the state of Illinois. For the Senior Colleges.

ASSOCIATE PROFESSOR MERRIAM

[Not to be given in 1907–8]

POLITICS AND LAW

21. **The Process of Legislation and Parliamentary Law.**—A study of legislative structure and procedure, national, state, and municipal; also of the structure and procedure of political conventions and similar bodies, and the theory and practice of parliamentary law. For the Senior Colleges; open to Juniors who have had Political Science I (or its equivalent).

PROFESSOR JUDSON

[Not to be given in 1907–8]

22. **Political Parties.**—A study of the organization and methods of action of modern political parties in the United States. Growth of the party system; primary and convention systems; permanent party organization; elements of cohesion in parties; reform movements and measures; theory of the party system.

Mj. Autumn Quarter; 12:00

ASSOCIATE PROFESSOR MERRIAM

23. **Municipal Problems.**—A detailed study of special problems in municipal organization and administration. For the Graduate Schools.

ASSOCIATE PROFESSOR MERRIAM

Prerequisite: *Courses 1 and 14 or equivalent.*

[Not to be given in 1907–8]

25. **History of Political Theory.**—This course traces the development of political theories down to the present time. The Classical period; the Mediæval period; the Renaissance and the Reformation; the Revolutionary era; the period of reaction; the Austinian school; modern individualism and collectivism. For the Graduate Schools; open to Seniors.

Mj. Winter Quarter; 8:30

ASSOCIATE PROFESSOR MERRIAM

[Not to be given in 1907–8]

26. **Principles of Political Science.**—This course presents a systematic study of the principles of political science. Scope and method of political theory; the nature of the state; the origin and basis of the state; sovereignty; the forms of the state; functions of the state. For the Graduate Schools; open to Seniors.

ASSOCIATE PROFESSOR MERRIAM

Courses 25 and 26 are given in alternate years.

27. **American Political Theories.**—This course covers the development of American political ideas. The Colonial period; the Revolution; Jeffersonian Democracy; Jacksonian Democracy; the Slavery controversy; the nature of the Union; recent tendencies. For the Graduate Schools; open to the Senior colleges.

M. Spring Quarter, 1907

ASSOCIATE PROFESSOR MERRIAM

31. **General Constitutional Law.** — Written constitutions: (*a*) making, revision, and amendment; (*b*) judicial power to declare laws unconstitutional. Due process of law and the separation of powers: due process in administrative proceedings; legislative action and due process; due process in judicial proceedings; independence of the judiciary. Delegation of legislative

power. Limitations of legislative power: equality; liberty; property. For the Graduate Schools and Seniors with 27 Majors of credit. Textbook: Thayer, *Cases on Constitutional Law*, Vol. I. Mj. Autumn Quarter; 2:00
PROFESSOR FREUND

32. **Federal Constitutional Law.**—Federal jurisdiction and express powers; implied powers; citizenship; privileges and immunities of citizens; suffrage; effect of later amendments; taxation; *ex post facto* and retroactive laws; laws impairing obligations of contracts; regulation of commerce; money; war. For the Graduate Schools and Seniors with 27 Majors of credit. Textbook: Thayer, *Cases on Constitutional Law*, Vols. I (part) and II.
Mj. Spring Quarter; 3:00
PROFESSOR HALL

33. **Municipal Corporations.**—General nature; corporate capacity; self-government; creation, annexation, division, dissolution, succession; mode of action, ratification and curative acts; estoppel by recitals; municipal police power; local improvements and services, including special assessments; municipal property, especially public streets; municipal contracts; expenditures and donations; indebtedness; liability. For the Graduate Schools. Textbook: Smith, *Cases on Municipal Corporations.*
Mj. Summer Quarter; 2:00
PROFESSOR FREUND

34. **Public Officers.**—Nature of office; eligibility; appointment and election; acceptance of office; qualifying for office; *de facto* officers; termination of officer's authority by expiration of term; resignation; removal; acceptance of incompatible office, etc.; authority of officer and its execution; liability of officer and the public; special remedies affecting official action. For the Graduate Schools. (Course 31 is a prerequisite.) Textbook: Mechem, *Public Officers*, and *Cases.*
PROFESSOR MECHEM (Law School)
[Not to be given in 1907–8]

35. **Administrative Law.**—Validity and construction of administrative powers; discretion; procedure; enforcement; remedies against wrongful administrative action; conclusiveness.
Mj. Winter Quarter; 2:00
PROFESSOR FREUND

36. **Contracts.**—Mutual assent and the necessity of its communication; offers and their expiration or revocation; necessity of consideration; requisites of contracts under seal; rights of beneficiaries and assignees. Open to Seniors with 27 Majors of credit. An extra fee of $5 is charged for this course. Mj. Autumn Quarter
PROFESSOR WHITTIER (Law School)

NOTE.—This first half of a two-Major course in the Law School is recommended especially to Political Science students. Examinations will be held at the end of the whole course in the Winter Quarter.

37. **Torts.**—Trespass to person, to real property, and to personal property; excuses for trespass; conversion; legal cause; negligence; contributory and imputed negligence; plaintiff's illegal conduct as a defense; duties of land owners; hazardous occupations; liability for animals; deceit; defamation: slander, libel, privilege, malice; malicious prosecution, criminal and civil; interference with social and business relations: inducing breaches of duty, fair and unfair competition, strikes, boycotts, business combinations. Open to Seniors with 27 Majors of credit. An extra fee of $5 per Major is charged for this course. Textbook: Ames and Smith, *Cases on Torts*, Vols. I and II.
Autumn Quarter; Winter Quarter
First Term and Second Term (2 hrs.)
PROFESSOR HALL (Law School)

39. **Roman Law.**—History of Roman Law and its reception in other countries; system of procedure, especially of causes and forms of action; elementary principles of the law of persons and property, and their development in modern civil law; comparison between civil- and common-law treatment of similar problems. Open to Seniors and recommended to pre-legal students. Textbook: Sandar, *Institutes of Justinian.*
PROFESSOR FREUND
[Not to be given in 1907–8]

41. **The Elements of International Law.**—The Major Course in the Autumn will be devoted to the law of peace and the law of war. The half-Major course in the Winter will be devoted to the law of neutrality. For the Graduate Schools and the Senior Colleges. Prerequisite: *Course 1 or its equivalent.* Mj. Autumn Quarter; 9:30
41A. ½ Mj. Winter Quarter; 9:30
PROFESSOR JUDSON

DIPLOMACY

43. **Recent Diplomatic History of Europe.**—The principal European treaties of the last century are examined, with an especial view to ascertain the main principles of existing interna-

tional agreements. Especial attention is given to treaties involving colonial relations. For the Graduate Schools and the Senior Colleges.

PROFESSOR JUDSON

[Not to be given in 1907-8]

44. **Diplomatic History of the United States.**—The treaty relations of the United States are studied in detail, including an analysis of documents and an examination of methods. For the Graduate Schools and the Senior Colleges.

PROFESSOR JUDSON

[Not to be given in 1907–8]

THE SEMINARS

51, 52. **Seminar in Politics.**—These courses are intended for advanced students whose principal work is Political Science, and who are prosecuting research in special topics. For the Graduate Schools.

2Mj. Autumn and Winter Quarters. Tu., 4:00-6:00.

COURSES IN POLITICAL SCIENCE OFFERED BY OTHER DEPARTMENTS

Credit in the Department of Political Science will be given for the following courses offered by other Departments:

THE DEPARTMENT OF HOUSEHOLD ADMINISTRATION

VI A, 20. **The State in Relation to the Household.**

Mj. Spring Quarter; 8:30

DR. BRECKINRIDGE

THE DEPARTMENT OF LATIN

XII, 51. **Research Course in Roman Politics.**—The political History of the years 62–57, 49–48, and 44–43 B. C. will be studied from the sources; the careers of the leading politicians of those years will be followed, and the character and purpose of the several political parties will be examined.

PROFESSOR ABBOTT

[Not to be given in 1907–8]

XII, 55. **Roman Provincial Administration.**—A study of the Roman system of government and taxation in the provinces, based mainly upon Cicero's orations against Verres and his letters from Cilicia, Pliny's correspondence with Trajan, and the inscriptions.

PROFESSOR ABBOTT

[Not to be given in 1907–8]

IV. THE DEPARTMENT OF HISTORY

OFFICERS OF INSTRUCTION

ANDREW CUNNINGHAM McLAUGHLIN, A.M., LL.B., *Professor and Head of the Department of History.*
BENJAMIN TERRY, PH.D., LL.D., *Professor of Mediæval and English History.*
EDWIN ERLE SPARKS, PH.D., *Professor of American History.*
FRANCIS WAYLAND SHEPARDSON, PH.D., LL.D., *Associate Professor of American History.*
FERDINAND SCHWILL, PH.D., *Associate Professor of Modern History.*
JAMES WESTFALL THOMPSON, PH.D., *Assistant Professor of European History.*
JOSEPH PARKER WARREN, PH.D., *Instructor in History.*
EDWARD BENJAMIN KREHBIEL, PH.D., *Associate in History.*
JULIAN PLEASANT BRETZ, PH.D., *Associate in History.*
FRANCES ADA KNOX, A.B., *Assistant in History.*

JAMES HENRY BREASTED, PH.D., *Professor of Egyptology and Oriental History.*
JAMES ALBERT WOODBURN, PH.D., *Professor of American History and Political Science, Indiana University* (Summer Quarter, 1907).
ROBERT JOHNSON BONNER, PH.D., *Instructor in Greek and in Ancient History.*

FELLOWS, 1906-7

CLARENCE ADDISON DYKSTRA, A.B.
MILO MILTON QUAIFE, PH.B.
CORINNE LELIA RICE, PH.B.
HENRY SMITH, PH.B.

INTRODUCTORY

The undergraduate courses offered by the Department of History have been so arranged as to meet the needs, not only of the advanced work of the Department of History, but also of such other departments of the University as may require some preliminary training in history.

Two outline courses in general history are provided for students of the Junior Colleges, one an outline of the Mediæval period of European History, and the other an outline of the Modern period. A third course, an outline of the History of the United States since 1765, with Courses 1 and 2, will provide one year of continuous work for the general student. These courses, so far as possible, should be taken in the Junior Colleges and in order.

The courses offered in the Senior Colleges are divided into five groups and are arranged as follows:

Group A. *Ancient Oriental and Classical History*, from the beginning of civilization in Egypt and western Asia, to the age of the Antonines.

Group B. *The Development of Mediæval Europe*, from the decline of the ancient classical civilization to the beginning of the Reformation.

Group C. *The History of Modern Europe*, from the Reformation to the close of the nineteenth century.

Group D. *The Constitutional and Political History of England.*

Group E. *The Constitutional and Political History of the United States.*

It is designed that Group A shall meet the needs of those students who intend to take up graduate work in the Semitic or Classical or related Departments: Groups A and B, the needs of those students who propose to enter the Divinity School; Groups B and C, those who enter the Romance or Germanic Departments; Group D, the English Department; Groups D and E, the Department of Political Science; Groups C, D and E, the Departments of Political Economy, or Sociology.

In the Graduate School, full liberty is allowed in the choice of subjects. Special courses are offered upon topics connected with Mediæval or Modern European, English and American History. In general, these subjects will be varied from year to year in regularly recurring series.

For advanced students, special seminar courses are conducted each Quarter under the direction of a Professor, for the double purpose of introducing the student to the methods of historical research and also for the investigation of unsettled or disputed questions.

The Historical Club, a voluntary organization of teachers and students, meets fortnightly for the reading and discussion of papers and the review of books and journals.

In addition to the general requirements for degrees specified on pp. 11, 12, the following special requirements are announced. For convenience, five subdivisions of the field of history are recognized in the work of the Department: (*a*) Ancient History, including Oriental and Classical History; (*b*) Mediæval History; (*c*) Modern European History, including contemporary English History; (*d*) English and American History; (*e*) American History and modern European History.

1. The candidate for the Doctor's degree in History will be expected to pass an examination not only upon the courses which he may have taken in the Graduate School, but also upon the general field of History. But the main stress of the examination will fall upon that one of the five subdivisions within which the topic of the thesis submitted lies.

2. In selecting a secondary subject for examination, the utmost liberty in the choice of a Department is allowed. In each case the Department concerned will determine the amount to be submitted.

3. In cases where History is chosen as a secondary subject, the candidate may submit for examination any one of the five subdivisions mentioned above.

4. In all cases, the candidate shall also have completed Courses 1 and 2 of the Department of Political Economy, Course 11 of the Department of Political Science, and Course 72 of the Department of Sociology.

5. For the Master's degree at least one year's work in the Graduate School shall be submitted for examination. See also the general requirements on pp. 11, 12.

6. The candidate, in all cases where History is presented, either as a principal subject or a secondary subject for the Doctor's degree, shall, in addition to the general requirements in French and German, p. 11, be expected to have such knowledge of the language or languages in which the chief sources of the main period submitted appear, as shall enable him to use such sources independently.

7. In all cases candidates are advised to call upon their respective examiners a month before the pro-

posed examination, and definitely inform each of the work done, and of the topics which it is proposed to submit for examination.

The library of the Department offers excellent opportunity for the advanced study of history. It is rich in the great collections of historical sources and contains a carefully selected list of the best and most important secondary works. In the historical group library alone there are over fifty thousand volumes. The general library has an unusually full set of Congressional and other Federal public documents. The libraries of the Departments of Church History, Comparative Religion, and Semitic Languages are also available. Besides the libraries of the University, the Chicago Public Library, the Newberry Library, the Crerar Library, and the Library of the Chicago Historical Society add to the facilities for original investigation.

A Scholarship, yielding the amount of the tuition fees for three quarters ($120), is awarded annually to that student who, having completed the work of the Junior Colleges, has maintained high standing in history in those colleges and has passed the best examination.

A Scholarship, yielding the amount of the tuition fees for three quarters ($120), is awarded annually to that student who, having completed the work of the Senior Colleges, has maintained high standing in history in those colleges, and has passed the best examination.

The Colonial Dames of America in the State of Illinois have provided a Scholarship yielding annually the amount of $300, to be awarded under special conditions to be arranged in consultation with the head of the department.

Several Fellowships, yielding stipends of $320 upon the average, are awarded annually for the encouragement of graduate work in this Department.

COURSES OF INSTRUCTION

II. Senior College Courses

Group A. Ancient Oriental and Classical History

4. **The History of Antiquity to the Fall of the Persian Empire.**
Mj. Autumn Quarter; 2:00
Professor Breasted
[Not to be offered in 1907]

5. **The History of Greece to the Death of Alexander.** — An outline study of the development of the political and social life of the Greek people.
Mj. Autumn Quarter; 9:30
Dr. Bonner

6. **The History of Rome to the Death of Constantine.** Of a character similar to that of Course 5.
Mj. Summer Quarter; 10:30
Spring Quarter; 11:00
Dr. Bonner

Group B. The History of Europe in the Middle Ages

7. **The Dark Ages, 250 A. D. to 814 A. D.**—The imperial monarchy; the reforms of Diocletian and Constantine; the rise of the Christian church and the papacy; the barbaric migrations to the formation of the Romano-Frankish empire.
Mj. Autumn Quarter; 12:00
Assistant Professor Thompson

8. **The Feudal Age, 814 to 1250.**—The break-up of the Frankish empire and the formation of feudal Europe; the conflict between the Church and the secular power; mediæval institutions and society; the crusades; the development of commerce; the rise of the universities.
Mj. Winter Quarter; 12:00
Assistant Professor Thompson

9. **The Age of Renaissance, 1250 to 1500.**—The rise of national monarchy; the pre-reformation movement; the influences of exploration, discovery, and invention. Mj. Spring Quarter; 12:00
Assistant Professor Thompson
Summer Quarter; 1:30
Dr. Krehbiel

Group C. The History of Europe in the Modern Period

10. **The Period of the Reformation and the Wars of Religion, 1500 to 1648.**
Mj. Autumn Quarter; 8:30

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11. **Europe in the Seventeenth and Eighteenth Centuries.** Mj. Winter Quarter; 8:30
Associate Professor Schwill

12. **The French Revolution and the Napoleonic Era.**
Spring Quarter; 8:30
Associate Professor Schwill

13. **Europe in the Nineteenth Century.**
Mj. Summer Quarter; 10:30
Dr. Bretz

Group D. The History of England

14. **The Constitutional and Political History of England to the Reign of Edward I.**—Recommended

for students in the pre-legal year preparatory to entering the Law School.

Mj. Autumn Quarter; 11:00
PROFESSOR TERRY

15. **The Constitutional and Political History of England from the Reign of Edward I. to the Revolution of 1688.**—Recommended for students in the pre-legal year preparatory to entering the Law School. Mj. Winter Quarter; 11:00
PROFESSOR TERRY

16. **The Constitutional and Political History of England in the Eighteenth and Nineteenth Centuries.** Mj. Spring Quarter; 11:00
PROFESSOR TERRY

16B. **The Constitutional and Political History of England in the Nineteenth Century.**
M. First Term, Summer Quarter; 10:30
PROFESSOR TERRY

GROUP E. THE HISTORY OF THE UNITED STATES

18. **History of the United States to the Election of Thomas Jefferson.**—Recommended for students in the pre-legal year preparatory to entering the Law School. Mj. Autumn Quarter; 8:30
ASSOCIATE PROFESSOR SHEPARDSON

19. **History of the United States from 1801 to 1850.**—Recommended for students in the pre-legal year preparatory to entering the Law School.
Mj. Winter Quarter; 8:30
ASSOCIATE PROFESSOR SHEPARDSON

20. **History of the United States since 1850.**
Mj. Spring Quarter; 8:30
ASSOCIATE PROFESSOR SHEPARDSON

III. GRADUATE COURSES

NOTE.—See the courses: Comparative Religion 2, 3, 4; Semitic 96, 106, 110, 113–116, 176, 226; Biblical Greek 10–13; Greek 17, 24, 25, 47; Latin 50, 51, 54, 55, 57, 58, 78.

27. **Historiography and Historical Bibliography.**—Lectures supplemented by an examination of the most important collections of sources and of the bibliographical tools most needed in historical investigation.
Mj. Autumn Quarter; 2:00
ASSISTANT PROFESSOR THOMPSON

28. **Historical Criticism.**—A study of the principles of historical investigation, with some reference to the auxiliary sciences and their uses. Lectures will be supplemented by practical exercises with documents to exemplify the problems of criticism. Mj. Winter Quarter; 2:00
ASSISTANT PROFESSOR THOMPSON

30A. **Introduction to the Study of Mediæval and Modern History.**—The interpretation of history, the law of progress, the essential elements of modern civilization, the factors of progress, the city, the imperial idea, the Roman law, the church, feudalism, the nation, representative government, democracy. A Graduate course; open to advanced undergraduates.
M. Summer Quarter; 11:30
PROFESSOR TERRY

31, 32. **The History of Civilization in Europe during the First Five Centuries of the Christian Era.**—

Part I (31). *The Roman Empire.*—General view of the empire at the death of Augustus; the political constitution; economic and social organization; the causes and progress of decline; political history from the death of Marcus Aurelius to the death of Theodosius the Great.
Mj. Autumn Quarter, 1907
Tu. and Th., 4:00–6:00
PROFESSOR TERRY

Part II (32). *The Expansion of the Germans over Western Europe.*—Life and institutions of the early Germans; emigration and final settlement in Central and Western Europe; political history of the empire in the fifth century; the founding of the several barbaric kingdoms; new aspects of civilization at the opening of the sixth century. Mj. Winter Quarter, 1908
Tu. and Th., 4:00–6:00
PROFESSOR TERRY

33. **The History of Civilization in Britain from the Fifth to the Eleventh Centuries.**—Roman Britain in the early fifth century; the Teutonic occupation; the Anglo-Saxons; rivalry of early kings; rise of Wessex and the establishment of the old English monarchy; decline of the monarchy; development of institutions; achievements of the Anglo-Saxons.
Mj. Spring Quarter; Tu. and Tr., 4:00–6:00
PROFESSOR TERRY

36. **Mediæval Institutions.**—Later Roman and Early German institutions; growth of the civil power of the church and the rise of the papacy; the fusion of Roman, German, and ecclesiastical elements; Justinian and the imperial reaction.
ASSISTANT PROFESSOR THOMPSON
[Not to be given in 1907–8]

37. **Mediæval Institutions.**—The rise of the Franks; relations of the Franks, the Lombards, and the

papacy; Charlemagne and the organization of Latin and German Europe.

ASSISTANT PROFESSOR THOMPSON

[Not to be given in 1907–8]

38. **Mediæval Institutions.**—The breaking up of the Frank empire and the feudal organization of western Europe; the invasions of the Northmen. ASSISTANT PROFESSOR THOMPSON

[Not to be given in 1907–8]

41, 42, 43. **Feudalism and the French Monarchy.**

ASSISTANT PROFESSOR THOMPSON

[Not to be given in 1907–8]

51. **Origin and History of the Cities of Tuscany.**—The feudal settlement of Tuscany; quarrel for possession between pope and emperor; the centers of trade and the communal spirit; the early constitutions and commercial rivalries; the primacy of Florence. The class will spend part of the time in examining diplomas, bulls, constitutions, etc.; a reading knowledge of Latin required. Lectures, interpretation of documents, and reports by students.

ASSOCIATE PROFESSOR SCHWILL

[Not to be given in 1907–8]

52. **The Intellectual History of Italy in the Renaissance.**—The instructor will examine the thought of the Middle Ages and analyze the forces which disrupted it. A study will be made of the work of Dante, Petrarch, and the humanists, together with the effect of the new thought upon state, church, society, commerce, science, and the universities. Lectures supplemented by reports prepared by the students.

Mj. Winter Quarter

ASSOCIATE PROFESSOR SCHWILL

[Not to be given in 1907–8]

61. **Introduction to the Study of English History.**—Sources and literature of English history; importance of English institutions; principles of progress; development of constitutional monarchy; the awakening of the nation; the struggle for religious and political liberty; the expansion of the empire; the growth of the democracy.

Open to undergraduates who have completed an elementary course in English history.

Mj. Autumn Quarter, 1908

PROFESSOR TERRY

[Not to be given in 1907]

62. **The Founding of the English State.**—The development of early English institutions from the earliest times to the reign of Edward I.

Mj. Winter Quarter, 1909

PROFESSOR TERRY

[Not to be given in 1907–8]

63. **The Establishment of the English Constitutional Monarchy.**—The development of the parliamentary and judicial systems of England from the thirteenth to the seventeenth century.

Mj. Spring Quarter, 1909

PROFESSOR TERRY

[Not to be given in 1907–8]

64. **The History of England in the Nineteenth Century.**—The growth of the democracy; parliamentary reform; the development of local self-government; the Eastern Question; the constitution of the British empire.

M. First Term, Summer Quarter; 11:30

PROFESSOR TERRY

[Not to be given in 1907–8]

65. **The Constitutional History of England from 1558 to 1625.**

DR. WARREN

[Not to be given in 1907–8]

66. **The Constitutional History of England from 1625 to 1660.**

DR. WARREN

[Not to be given in 1907–8]

67. **The Constitutional History of England from 1660 to 1702.**

DR. WARREN

[Not to be given in 1907–8]

68. **The Constitutional History of England from 1702 to 1760.**

DR. WARREN

[Not to be given in 1907–8]

69. **The Constitutional History of England from 1760 to 1832.**—The central theme of the course will be the development of the British constitution toward the modern form of parliamentary and cabinet government. The influence of political parties, industrial changes, political and economic theories, the American and French revolutions, the Irish question and the reform movement culminating in the Reform Bill of 1832, will be traced. Lectures will be supplemented by the study of leading documents and by reports from students.

Mj. Autumn Quarter; 9:30

DR. WARREN

70. **The Constitutional History of England from 1823 to 1895.**—The view-point and method will be the same as in course 69. Reform legislation especially concerning the franchise, distribution of representation and local government, the adjustment of the cabinet system to middle class control and later to democracy, political parties and methods, the Irish question, and the new imperialism in its relations to self-government will be especially considered.

Mj. Winter Quarter; 9:30
DR. WARREN

71. **The Rise of Prussia.**—The growth of Brandenburg and its reigning house; its service in raising a bulwark against the Slavs; its relation to the Reformation and to German culture; its gradual detachment from the Empire; its reorganization under the Great Elector. Especial emphasis will be placed on the period from the Thirty Years' War to the accession of Frederick the Great (1648–1740).

Mj. Winter Quarter; 9:30
ASSOCIATE PROFESSOR SCHWILL

72. **The Rise of Prussia** (Continued).—The defeat of Austria by Frederick; his administration, diplomacy, economic system, and personality; the decline of Prussia under Frederick's successors, the overthrow in 1806, the rejuvenation inaugurated by Stein. These two courses will be conducted by lectures and by reading and interpretation of original documents.

Mj. Spring Quarter; 9:30
ASSOCIATE PROFESSOR SCHWILL

75. **The French Revolution.**—The study of the *ancien régime* is followed by the history of the reign of Louis XVI, the meeting of the States General, the triumph of the Revolution, and the making of a constitution. French a prerequisite. Lectures and reports. Mj

ASSOCIATE PROFESSOR SCHWILL

[Not to be given in 1907–8]

76. **The French Revolution** (continued).—The rise of republicanism and the overthrow of the monarchy, the revolutionary wars, the triumph of the radicals and the Reign of Terror, the reaction of Thermidor and the establishment of the Directory (1795). Mj

ASSOCIATE PROFESSOR SCHWILL

[Not to be given in 1907–8]

81. **The Constitutional History of the American Colonies.** Mj

PROFESSOR MCLAUGHLIN

[Not to be given in 1907]

82. **The Constitutional History of the United States from 1760 to 1801.**

Mj. Autumn Quarter; 3:00
PROFESSOR MCLAUGHLIN

83. **The Constitutional History of the United States from 1801 to 1860.**—The purpose of these two courses (82 and 83) is not to give a detailed account of facts in our constitutional history, but to trace the growth of fundamental principles and to study the workings of important institutions.

Mj. Winter Quarter; 3:00
PROFESSOR MCLAUGHLIN

84. **The History of the United States, 1860–1869.**

Mj. Autumn Quarter; 9:30
ASSOCIATE PROFESSOR SHEPARDSON

85. **The History of the United States, 1869–1877.**

Mj. Winter Quarter; 9:30
ASSOCIATE PROFESSOR SHEPARDSON

86. **The History of the United States, 1877–1901.**

Mj. Spring Quarter, 9:30
ASSOCIATE PROFESSOR SHEPARDSON

90. **United States History: Making of the Middle West.**—Exploration and settlement; origin of the public domain; the northwest and southwest territories; creation of new states; relations of these states to the Union.

Mj. Winter Quarter; 11:00
PROFESSOR SPARKS

91. **United States History; The Public Land System.**—Land tenures in the colonies; western boundaries; transfer to the Union; Indian reservations; uses and abuses of the public lands.

Mj. Spring Quarter; 11:00
PROFESSOR SPARKS

92. **United States History: The Indian and the Government.**—Indian title to the land; Indian treaties and boundaries; transfers and reservations; the use of the army; the "peace" policy; the Indian and the newer states.

PROFESSOR SPARKS

[Not to be given in 1907–8]

93. **United States History: Economic and Political Aspects of the West.**—Movement of population;

development of agriculture and mining; transportation problems; inland commerce and navigation; elements in the new state constitutions.
PROFESSOR SPARKS
[Not to be given in 1907–8]

94. **The Confederation and the Constitution, 1780 to 1800.**
M. Second Term, Summer Quarter; 9:00
PROFESSOR SPARKS

98. **The History of American Political Parties.**
Mj. Summer Quarter; 11:30
PROFESSOR WOODBURN

99. **The Civil War and the Period of Reconstruction, 1860 to 1877.** Mj. Summer Quarter; 1:30
PROFESSOR WOODBURN

100. **Teachers' Course in American History, 1760–1860.**—Bibliography; investigation of special topics. Open to teachers of secondary schools who are especially interested in American history. Undergraduate students must have had the courses of group E.
M. Second Term, Summer Quarter; 8:00
PROFESSOR SPARKS

THE SEMINARS

101. **Early English Institutions.**—Investigation of special topics connected with early English social and political institutions.
Mj. Autumn Quarter
Friday, 4:00–6:00
PROFESSOR TERRY

102. **The Laws and Legislation of the Norman-Angevin Kings of England.**—Investigation of special topics connected with the constitutional development of England from the eleventh to the thirteenth century. Mj. Winter Quarter
Friday, 4:00–6:00
PROFESSOR TERRY

103. **The Charters of Liberties.**—Investigation of constitutional questions involved in the charters of Angevin kings.
Mj. Spring Quarter
Friday, 4:00–6:00
PROFESSOR TERRY

111. **The Expansion of Slavery.**—Origin and spread of the slavery system in America, its economic influence on territorial extension, and resulting influence on political history.
Mj. Winter Quarter
Tuesday, 4:00–6:00
PROFESSOR SPARKS

112. **Physical and Economic Basis of the Civil War.**—Relative strength of the two sections in wealth, resources, means of transportation, and in topographical advantages.
Mj. Spring Quarter
Tuesday, 4:00–6:00
PROFESSOR SPARKS

118. **The Beginnings of American Political Parties and of Party Machinery.**
Autumn Quarter
Monday, 3:00–5:00
PROFESSOR MCLAUGHLIN

119. **The Philadelphia Convention of 1787.**
Autumn Quarter
Monday, 9:00–11:00
PROFESSOR MCLAUGHLIN

120. **The Immediate Preliminaries of the Civil War.**
Winter Quarter
Monday, 3:00–5:00
PROFESSOR MCLAUGHLIN

NOTE.—These courses (118, 119, 120) are likely to be followed in succeeding years by 121, Slavery and Abolition; 122, Foundation of State Constitutions; 115, The Preliminaries of the American Revolution; 117, The Constitutional Questions of Jackson's Administration.

V. THE DEPARTMENT OF THE HISTORY OF ART

OFFICERS OF INSTRUCTION

FRANK BIGELOW TARBELL, PH.D., *Professor of Classical Archæology.*
JAMES HENRY BREASTED, PH.D., *Professor of Egyptology and Oriental History.*
GEORGE BREED ZUG, A.B., *Instructor in the History of Art.*

INTRODUCTORY

The University owns a considerable number of original Egyptian antiquities and of casts of Egyptian and Assyrian bas-reliefs and other objects. It owns also several thousand photographs illustrating all branches of the history of art which are here taught. These are constantly accessible to students. Furthermore, the neighboring Field Museum of Natural History has some illustrative material, the Egyptian collection being

unusually valuable; and the Art Institute of Chicago, which may be reached in about half an hour from the University, has a large number of casts of sculpture and architecture, reproductions in bronze of most of the bronze statues found in Pompeii and Herculaneum, some original works of Egyptian, Greek, and Roman art, and a gallery of paintings, which includes examples of some of the great masters of the seventeenth century. Much use is made by the department of the opportunities afforded by these public collections.

Graduate students intending to take courses in this Department in fulfilment of the requirements for the degree of Master of Arts, Philosophy, or Science, or for that of Doctor of Philosophy, must announce their intention in advance to the instructor or instructors concerned and must undertake assignments of work in addition to that ordinarily done by undergraduates.

Candidates for the degree of Doctor of Philosophy in this department are at liberty to confine themselves to the Ancient Period or the Mediæval and Modern Period. They are, however, strongly advised, while concentrating their studies upon one of these subdivisions, to acquaint themselves with at least the outlines of the subject in the other subdivision.

COURSES OF INSTRUCTION

Senior College and Graduate Courses

I. THE ANCIENT PERIOD

1. **Oriental Art from the Earliest Times to the Conquests of Alexander.**—See VIII, 234. Mj
Professor Breasted

2. **Greek Art.** Mj. Autumn Quarter; 8:30
Professor Tarbell

3. **Greek Life, Studied from the Monuments.**
Professor Tarbell
[Not to be given in 1907]

3A. **Greek Life, Studied from the Monuments.**
M. First Term, Summer Quarter; 9:00
Professor Tarbell

4. **Ancient Athens, Olympia, and Delphi.**—A study of the sites named, on the basis of the extant remains. Mj. Autumn Quarter; 9:30
Professor Tarbell

5. **Roman Art.** Mj. Winter Quarter; 8:30
Professor Tarbell

5A. **Roman Art.**
M. First Term, Summer Quarter; 8:00
Professor Tarbell

6. **Fifth Century Greek Sculpture.**—Prerequisite: *Course 2.*
Professor Tarbell
[Not to be given in 1908]

7. **Greek Vases.** Mj. Winter Quarter; 9:30
Professor Tarbell

8. **Greek and Roman Coins and Gems.**
Professor Tarbell
[Not to be given in 1908]

9. **Fourth Century Greek Sculpture.**—Prerequisite: *Course 2.*
Professor Tarbell
[Not to be given in 1908]

10. **Greek Architecture.** Mj. Spring Quarter; 8:30
Professor Tarbell

11. **Attic Red-Figured Vases.**—Prerequisite: *Course 7.*
Mj. Spring Quarter; 9:30
Professor Tarbell

II. THE MEDIÆVAL AND MODERN PERIOD

The laboratory method of study is employed in each of the following courses, and occasional visits to the Art Institute or to other collections of pictures are required.

29. **Venetian Painting.**—An outline study of the school, with but slight attention given to Giorgione and Titian.
M. First Term, Summer Quarter; 1:30
Mr. Zug

30. **Giorgione and Titian.**—A special study of these masters.
M. Second Term, Summer Quarter; 1:30
Mr. Zug

28. **Movements in Nineteenth Century Art.**—French Classicism and Romanticism in the Nineteenth Century; the Barbizon School; the *plein-air* painters of landscape and of the figure; the French impressionists.
M. First Term, Summer Quarter; 2:30
Mr. Zug

24. **American Art—An Outline Study.**—A brief study of the elder American painters, and a more careful examination of the work of the contemporary painters and of the best-known sculptors.
M. Second Term, Summer Quarter; 2:30
Mr. Zug

25. **An Introduction to the Study of Art.**—The main objects of the course are: to interest beginners in some of the masterpieces of painting, to indicate how to study and appreciate art, and to

call the attention of students to the importance of the Fine Arts in general culture. At the same time the class follows the broad movements in national schools of art from the Italians of the Renaissance to contemporary masters of the French and American schools. There are informal discussions of old and modern paintings and lectures on the place of the Fine Arts in general education, and on the influence of national characteristics on the great schools of art.

Mj. Winter Quarter; 2:00
Mr. Zug

31. **Florentine Painting.**—An outline study.

Mj. Winter Quarter; 3:00
Mr. Zug

24. **American Art—An Outline Study.**—A brief study of the elder American painters. and a more careful examination of the work of the contemporary painters and of the best-known sculptors.

Mj. Spring Quarter; 2:00
Mr. Zug

27. **Venetian and Spanish Painting.**—An outline study of the great masters of the Venetian and Spanish schools, with some attention to their influence on modern French painting.

Mj. Spring Quarter; 3:00
Mr. Zug

VI. THE DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

OFFICERS OF INSTRUCTION

ALBION WOODBURY SMALL, Ph.D., LL.D., *Professor and Head of the Department of Sociology.*
CHARLES RICHMOND HENDERSON, Ph.D., D.D., *Professor and Head of the Department of Ecclesiastical Sociology.*
GEORGE EDGAR VINCENT, Ph.D., *Professor of Sociology.*
CHARLES ZUEBLIN, Ph.B., D.B., *Professor of Sociology.*
FREDERICK STARR, Ph.D., *Associate Professor of Anthropology, and Curator of the Anthropological Section of Walker Museum.*
WILLIAM ISAAC THOMAS, Ph.D., *Associate Professor of Sociology.*
JEROME HALL RAYMOND, Ph.D., *Associate Professor of Sociology.*
IRA WOODS HOWERTH, Ph.D., *Assistant Professor of Sociology.*
GEORGE AMOS DORSEY, Ph.D., *Assistant Professor of Anthropology.*
GRAHAM TAYLOR, D.D., *Professorial Lecturer.*
MARY E. McDOWELL, *Resident Head of the University Settlement.*

FELLOWS, 1906-7

ALBERT HEYEM NACHMAN BARON, A.B.
SCOTT ELIAS WILLIAM BEDFORD, A.B.
VICTOR EMMANUEL HELLEBERG, A.B.
CECIL CLARE NORTH, A.B.

INTRODUCTORY

The division of labor assigned to this Department is, on the one hand, study of the general process of human association, and, on the other hand, of the principles of conduct indicated by ascertained knowledge of social relations considered as a whole.

This double task implies, first, that the Department depends largely upon use of the method and results of the other departments in the Historical Group, including Psychology; second, that conversely the special sciences in the Group depend logically upon presumptions about the meaning and relative importance of the general social relations which it is the work of Sociology to investigate.

The union of the subject of Anthropology and Ethnology with Sociology is merely provisional, and does not imply that the logical relations between them and Sociology differ from those between the latter subject and the other special social sciences. The courses offered are intended to enable students to gain a general idea of the history of human progress, to take a survey of the races of mankind, to study the beginnings made by primitive man in times before history, and to acquire necessary methods of research in these subjects.

The facilities for sociological study in the University of Chicago are unsurpassed. The differentiation of Departments devoted to social phenomena, and the division of labor within the Departments, is nowhere more distinct and minute. The city of Chicago is one of the most complete social laboratories in the world. While the elements of Sociology may be studied in smaller communities, and while it may be an advantage to beginners in the method of positive Sociology to deal at first with more simple social combinations, the most serious problems of modern society are presented by the great cities, and must be studied as they are encountered in concrete form in large populations. No city in the world presents a wider variety of typical social problems than Chicago.

The instructors in the Department of Sociology aim to use the scientific material thus afforded both for academic and for practical purposes. They find a large proportion of their opportunities for research in co-operation with the public-spirited men and women of the city. They are active members of many organizations of citizens for the purpose of investigating and shaping the life of Chicago. Graduate students in the department are taught to work among social facts, and to test and form theory by experience.

Thus the organized charities of the city afford Graduate students of the University both employment and training. The church enterprises of the city enlist students in a similar manner. Several students of Sociology have been residents and workers at Hull House. A social settlement upon the plan of Hull House has been founded and maintained by students and instructors in the University. Social organizations of every description, from Trades Unions to the City Club, afford illustrations of every type of modern social experiment, and opportunity for the largest variety of observation and experience. Representatives of all these phases of social effort cordially co-operate with the Department of Sociology in making these social endeavors tributary to the training of sociological students. It is the purpose of this Department to appropriate to the utmost every advantage afforded by the vast social laboratory within which the University is located.

The subjects in the Department of Sociology and Anthropology fall into the following groups: A, General Sociology; B, Anthropology and Ethnology; C, Social Psychology; D, Social Technology. Candidates for the higher degrees, if otherwise qualified, may choose either of these groups as principal or secondary subject. The minimum amount of work accepted for the degree of A.M. is six majors, or for the secondary subject leading to the degree of Ph.D., nine majors. If either of the above groups be chosen as the principal subject for the degree of Ph.D., the equivalent of eighteen majors within or under the direction of the Department of Sociology and Anthropology will be required.

The instructors in this Department edit the *American Journal of Sociology*, which is published bimonthly on the first of January, March, May, July, September, and November. The subscription price, postage prepaid, for the United States, Canada, and Mexico is $2 per year; for foreign countries, $2.50; single numbers, 35 cents. The seventh annual volume is now current.

The members of the Sociology Club are the instructors and Graduate students in the Department of Sociology and Anthropology. By a vote of two-thirds of the members of the club, other persons, whether connected with the University or not, may be admitted to membership. Meetings are held every fortnight.

COURSES OF INSTRUCTION

1. **General Anthropology.**—Outlines of the Science. Tylor, *Anthropology*. The class work will be based on the textbook named.
Mj. 4 hrs. a week. Winter Quarter, 1908; 12:00
ASSOCIATE PROFESSOR STARR

1A. **Anthropology.**—Introductory course; intended for those who propose to take advanced work in Anthropology, Sociology or related subjects. The divisions of the Science; the aims, methods, and problems of each division. Open to Junior College students.
Mj. 4 hrs. a week. Autumn Quarter; 12:00
ASSISTANT PROFESSOR DORSEY

2. **Ethnology.**— Study of General Ethnology. Brinton, *Races and Peoples*, will first be studied. The subject will then be developed by class lectures, discussions, and preparation by students of essays upon special and assigned topics. The objects sought in this course are, (1) to present the great problems of Ethnology; (2) to consider systems of classification of human races and the basis for such classification; (3) to follow the history of the science.
Mj. 4 hrs. a week. Summer Quarter, 1907; 12:00
ASSOCIATE PROFESSOR STARR

2A. **Physical Anthropology.**—Introductory course, intended primarily for students who propose to take advanced work in Physical Anthropology

or who are preparing for the medical profession. The object of the course is to define man's relation to the animal kingdom and to classify mankind according to races and types.

This course alternates with 3A and is given in even years. Prerequisite: *Course 1A.*

Mj. 4 hrs. a week. Winter Quarter; 12:00
ASSISTANT PROFESSOR DORSEY

3. **Prehistoric Archæology.**—European. Outline of the science so far as it deals with the Old World. Textbook work, based upon de Mortillet, *Le-Prehistorique,* will be supplemented by lectures, collateral reading, and practical work in laboratory and museum. Preliminary to this work, study will be made of quaternary geology and of the geological evidence of man's antiquity.

Mj. Spring Quarter, 1907; 12:00
ASSOCIATE PROFESSOR STARR

3A. **Physical Anthropology.**—This course considers the problems of Physical Anthropology, and especially the methods of their solution. The statistical and metrical methods in their relation to these problems as well as to those of general biology will be studied. Practical work, involving the use of instruments, will be done in craniometry, anthropometry, etc. The course is introductory to original investigation in Physical Anthropology and to the statistical study of general biological problems.

This course alternates with 2A and is given in odd years. Prerequisite: *Course 2A.*

Mj or DMj. Winter Quarter; 12: 00
ASSISTANT PROFESSOR DORSEY

4. **Physical Anthropology.** — Elementary course. Students are made acquainted with the instruments used in the science, with the methods and with the results to be gained. Examples of various races will be examined and the work will be made practical.

ASSOCIATE PROFESSOR STARR
[Not to be given in 1907–8]

4A. **Ethnography.**— This course deals with the tribes of America — their origin, migration, and distribution — and considers the problems arising from a comparative study of their culture, language, and physical structure. The effects of heredity and geographical environment are especially studied.

This course alternates with 5A and is given in even years. Prerequisite: *1A.*

Mj. Spring Quarter; 12:00
ASSISTANT PROFESSOR DORSEY

5. **The American Race.** — The general problems of the American Indian tribes are considered in this course. 4 hrs. a week.

Mj. Summer Quarter, 1907; 11:00
ASSOCIATE PROFESSOR STARR

5A. **Ethnology.** — In this course are considered the probable beginnings and historical development for America of the various elements of culture, including the material, social, and religious.

This course alternates with 4A and is given in odd years. Prerequisite: *1A.*

Mj. Spring Quarter; 12:00
ASSISTANT PROFESSOR DORSEY

6. **Prehistoric Archæology.** — American. The general subject will be presented in class lectures. Students will select a special topic for individual reading under direction. Theses resulting from such reading will be presented and discussed. Personal field work and laboratory study should, if possible, be done in connection with the thesis work. Mj

ASSOCIATE PROFESSOR STARR

6A, 7A, 8A. **Research Course.** — Advanced work in Physical Anthropology, Ethnology, or Archæology, to be given in the laboratory of the Department of Anthropology of the Field Museum, will be arranged for properly qualified students. For prerequisite: consult instructor.

Mj or DMj. Autumn, Winter, and Spring Quarters.

ASSISTANT PROFESSOR DORSEY

7, 8, 9. **Physical Anthropology—Laboratory Work.**— Topinard, *Eléments d'Anthropologie Générale* will be carefully studied. Students will do practical work in Craniometry, Anthropometry, etc. Besides instrumental work they will tabulate results, pursue original investigation, and prepare reports. Primarily for Graduate students.

ASSOCIATE PROFESSOR STARR
[Not to be given in 1907–8]

10. **Mexico.**— Study of the Archæology, Ethnology, and Physical Anthropology of Mexico. In addition to textbook study, class lectures will be given, and practical work with collections representing the archæology and ethnography of Mexico will be required.

Mj. 4 hrs. a week. Winter Quarter, 1908; 11 : 00.

ASSOCIATE PROFESSOR STARR

11, 12, 13. **Laboratory Work in Anthropology.**—Selected students, qualified for such work, may pursue

studies in the Laboratory or Museum, in Archæology, Ethnology, or Physical Anthropology, provided that, by so doing, they do not trespass upon the field of the other workers in the University. Such study will be under the direction of the instructor and, if desired, with his assistance. Offered in successive Quarters (except Summer) when the instructor is in residence. Mj. 4 hrs. a week. 1907–8. 2:00
ASSOCIATE PROFESSOR STARR

14. **Japan.**—The instruction is chiefly by lectures. Special attention is paid to industrial art and religion. Special topics are assigned for study and each member of the class must present at least two papers for class discussion.
Mj. 4 hrs. a week. Spring Quarter, 1907; 11:00
ASSOCIATE PROFESSOR STARR

15. **The Pueblo Indians of New Mexico.**—The series of class lectures are directive to the literature. Students will investigate and report on special topics.
Mj. 4 hrs. a week. Summer Quarter, 1908; 11:00
ASSOCIATE PROFESSOR STARR

16, 17. **Seminar: General Progress in Anthropological Science.** ASSOCIATE PROFESSOR STARR
Mj. 4 hrs. a week. All Quarters but Summer; 2:00
ASSOCIATE PROFESSOR STARR

24. **Art and the Artist Class.**—From the sociological point of view, and with particular reference to origins. Animal play and rudimentary expressions of art in animal societies. Mutilation, artificial deformation, stimulants, ornament-dress, tattooing, the dance, music, poetry, painting, sculpture, technology, ceremonial, humor, and play among the natural races. The relation of art to work. Art and gaming in Chicago.
Mj
ASSOCIATE PROFESSOR THOMAS
[Not to be given in 1907–8]

26. **Social Origins.**—Association and culture in early times and in tribal life. Early food conditions, migrations, and race-crossings. Origins and relations of invention, trade, warfare, art, marriage. Class distinctions, the professions, legal, political, and ecclesiastical institutions. Ethnological reading. An introductory course. For Senior College and Graduate students.
Mj. Autumn Quarter; 9:30
ASSOCIATE PROFESSOR THOMAS

26A. Mj. Summer Quarter; 10:30
ASSOCIATE PROFESSOR THOMAS

27. **Mental Development in the Race.**—A genetic study of the relation of mind to individual and social activities. The psychology of mechanical and artistic invention. Relation of language to thought. Systems of number, time, weight, and measure in early society. Development of ideas of causation. Parallelism in development between the individual and the race. Educational meaning of initiation, secret societies, and tapu. Influence of animistic belief, suggestion, and hypnotism in the development of the content of consciousness. The effect of genius on the mental life of a group. Comparison of the mental traits of different races, epochs, and social classes. For Graduate students.
Mj. Autumn Quarter; 8:30
ASSOCIATE PROFESSOR THOMAS

27A. Mj. Summer Quarter; 11:30
ASSOCIATE PROFESSOR THOMAS

28. **Sex in Social Organization.**—The influence of the fact of sex in the development of forms of association and of social activity and structure. Based principally on data from the natural races, and from the population of the city of Chicago, with a preliminary consideration of sex in the lower life forms. Prerequisite: *Courses 26, 27, and 30.*
ASSOCIATE PROFESSOR THOMAS
[Not to be given in 1907–8]

30. **Primitive Social Control.**—A study of primitive juridical and political systems and of social conventions. Family, clan, tribal and military organization, totemism, tribal and property marks, tapu, personal property and property in land, periodical tribal assemblies and ceremonies, secret societies, medicine men and priests, caste, blood vengeance, salutations, gifts, tribute, oaths, and forms of offense and punishment, among typical tribes of Australia and Oceania, Africa, Asia, and America.
Mj. Spring Quarter; 9:30
ASSOCIATE PROFESSOR THOMAS

31. **Origin and Psychology of the Occupations.**—Research course. Prerequisite: *Course 27.*
ASSOCIATE PROFESSOR THOMAS
[Not to be given in 1907–8]

32. **The Mind of the Oriental.**
Mj. Spring Quarter; 9:30
ASSOCIATE PROFESSOR THOMAS

35. **Egyptian Life and Antiquities.**—(See VIII, 232.) Mj
PROFESSOR BREASTED

House Sanitation. —(See VI A, 42.)
Mj. Autumn Quarter; 11:00
PROFESSOR TALBOT

Food Supplies and Dietaries. —(See VI A, 43.)
Mj. Winter Quarter; 11:00
PROFESSOR TALBOT

Administration of the House.—(See VI A, 44.)
Mj. Spring Quarter; 11:00
PROFESSOR TALBOT

Modern Problems in Household Administration.—(See VI A, 45, 46, 47.)
3Mj. Autumn, Winter, and Spring Quarters; Tu., Th., 3:00–5:00.
PROFESSOR TALBOT

51. **Contemporary Society in the United States.** — A general survey of natural environment, population and its distribution, industrial and social grouping, typical institutions, etc., designed as a concrete introduction to the study of social problems and as a means of correlating the various social sciences.
Mj. Autumn Quarter; 11:00
PROFESSOR VINCENT

52. **American Cities.** — A study of the modern city with special reference to American municipalities, and of physical conditions, public services, political, industrial, and social groupings. Designed to offer a foundation for the study of special city problems. Expeditions to typical institutions. Mj. Winter Quarter; 11:00
PROFESSOR VINCENT

52A. **Development and Organization of the Press.**—Historical sketch of the American Press followed by an analysis and description of the technical, editorial, and business organization of a modern metropolitan journal, including the systems of general and special news services. Especially for those intending to do newspaper work. Mj. Spring Quarter; 8:30
PROFESSOR VINCENT

53. **The Family.**—The development of the domestic institutions in lower and higher civilizations; social ethics of the family; legal, industrial, educational, and religious problems of the family. Primarily for Graduate students; Senior College students admitted.
Mj. Autumn Quarter, 1907; 11:00
PROFESSOR HENDERSON

55A. **Humanitarian Progress in Local Institutions.**—The practical purpose of this course is to supplement theoretical and historical studies in sociology by the observation of social work on the local field. Two hours of classroom study will be devoted to principles, methods, and conditions underlying the civic, charitable, reformatory, and social work to be inspected on the other weekly appointments. Itinerary of inspections, with incidental expenses involved furnished on application to the Dean.
M. First Term, Summer Quarter
PROFESSOR GRAHAM TAYLOR

56. **The Group of Industrials.**—The labor movement from the viewpoint of Sociology. The influence of habitat, race, inheritance, migration, division of labor, towns, institutions, and conventions on the differentiation and opportunities of the so-called operative class, the actual condition of this group, and their participation in the goods of civilization; the essentials of a truly human existence; the modes by which improved ideals of welfare originate and are diffused; the social system of economic, political, and cultural organization through which the group must enjoy the social inheritance; description, criticism, programme of amelioration. Primarily for Graduate students; Senior College students admitted. Mj. Spring Quarter, 1907; 11:00
PROFESSOR HENDERSON

57. **Rural Communities.**—Conditions of social existence in the country; organization for improvement. Primarily for Graduate students; Senior College students admitted.
M. Second Term, Summer Quarter, 1907; 10:30
PROFESSOR HENDERSON

58, 59, 60. **Seminar: Methods of Social Amelioration.**—Discussion, reports, and thesis work on contemporary movements for social betterment, chiefly on the basis of studies of Chicago life. For Graduate students.
3Mj. Autumn, Winter, and Spring Quarters; Thursday, 4:00–6:00.
PROFESSOR HENDERSON

61. **Urban Communities.**—Method of analytic study of social organization; comparisons of ancient and modern cities; the system of community bonds and interests; functions of political, economic, and cultural organizations as determined by social interests; the modes of quickening higher wants and the co-operation of public and private agencies in their satisfaction. Primarily for Graduate students; Senior College students admitted. Mj. Winter Quarter, 1908; 11:00
PROFESSOR HENDERSON

63. **Ecclesiastical Sociology.**—Methods by which the Church and its societies minister to the welfare of communities. Primarily for Graduate students; Senior College students admitted.
Mj. Autumn Quarter, 1907; 12:00
PROFESSOR HENDERSON

64. **Contemporary Charities.**—Studies of the nature and origin of depressed and defective classes; principles and methods of relief; organization of benevolence.
Mj. Spring Quarter, 1907; 11:00
PROFESSOR HENDERSON

65. **Social Treatment of Crime.**—Causes of crime; principles of Criminal Anthropology; prison systems; legal factors; juvenile offenders; preventive methods.
M. Second Term, Summer Quarter, 1907; 11:30
PROFESSOR HENDERSON

67. **The Structure of English Society.**—A study of the economic, physiological, social, æsthetic, intellectual, and ethical elements in a typical society. PROFESSOR ZUEBLIN
[Not to be given in 1907–8]

67A. **The Economic Basis of Society.**—An examination of the fundamental human want and its relation to the other wants, using Hobson's *The Social Problem* as a text. For Senior College students. Prerequisite: *Political Economy.*
Mj
PROFESSOR ZUEBLIN
[Not to be given in 1907–8]

67B. **The Elements and Structure of Society.**—A continuation of the course, "The Economic Basis of Society." An examination of the physiological, social, æsthetic, intellectual, and moral wants as they are satisfied in American society. Lectures and theses. For Senior College students.
Mj. Summer Quarter; 10:30
PROFESSOR ZUEBLIN

67C. **The Implications of Democracy.**—With special reference to the social institutions of Great Britain, Switzerland, and the United States. The special subject for 1906 will be "Municipal Trading." Lectures and research. For Graduate students. A knowledge of French or German desirable. Mj. Summer Quarter; 11:30
PROFESSOR ZUEBLIN

68. **Philanthropy in its Historical Development.**—Primarily for Graduate students; Senior College students admitted.
Mj. Winter Quarter; 12:00
PROFESSOR HENDERSON
[Not to be given in 1907–8]

69. **The Elements and Structure of Society.**—A study of the economic, physiological, social, æsthetic, intellectual, and moral elements in American society. The interrelation of the individual and the group. The problem of social progress in a democratic society.
PROFESSOR ZUEBLIN
[Not to be given in 1907–8]

70. **Municipal Sociology.**—The social functions and activities of American cities. Lectures and research. For Graduate students only.
Mj. Spring Quarter; 12:00
PROFESSOR ZUEBLIN

71. **An Introduction to the Study of Society.**—An elementary course designed to afford a working theory of the nature of society, and to serve as an introduction to the special social sciences of economics, political science, etc. For Juniors. Required of students in commerce and administration. Mj. Spring Quarter; 11:00
PROFESSOR VINCENT

72. **An Introduction to Sociology.**—A rapid historical survey of social philosophy from Plato to Comte, followed by a more detailed examination of current sociological themes. For Senior College and Graduate students.
Mj. Autumn Quarter; 8:30
PROFESSOR VINCENT

73. **Public Opinion.**—A study of social psychology: i. e., the phenomena of the public or ethnic mind. Examination of the theories of Lewes, Tarde, Giddings, Sighele, Brinton, Baldwin, *et al.* Designed for Graduate students. Seniors admitted. Mj. Winter Quarter; 8:30
PROFESSOR VINCENT

74, 75, 76. **The Reciprocal Influence of the Social Sciences in the Nineteenth Century.**—These courss are inductive studies in the evolution of the methodology of the social sciences. They trace the effects which contemporary scientific ideas had upon the working concepts of the several social sciences; the preconceptions borrowed from general philosophy; the psychological presumptions; the accepted delimitations of scope, the formulations of problems, and the methods actually

applied. At each stage comparison is made between the general views of human society, implied in the systems investigated, with the present sociological conception of the social process. The attempt is made to discover the extent to which moral philosophy, history, political philosophy, political science, and political economy in turn have shaped the general progress of the social sciences at different stages, and particularly how these factors affect the present formulation of problems in the social sciences, especially sociology. The courses do not discuss specific questions of technique which fall strictly within the province of the several social sciences, with the exception of sociology, but solely those questions of interrelation which involve all social science. They are not designed, therefore, for students of sociology alone, but for students who propose to specialize in either of the social sciences. The courses should be taken not earlier than the second graduate year, and preferably in the third. 3Mj. Autumn, Winter, and Spring Quarters; 8:30
PROFESSOR SMALL

77. **The Social Philosophy of the English People in the Victorian Era.**
PROFESSOR ZUEBLIN
[Not to be given in 1907–8]

79. **Social Forces in Modern Democracy: United States.**—For Senior College and Graduate students. Mj
PROFESSOR SMALL
[Not to be given in 1907–8]

80. **Social Forces in Modern Democracy: England.**—For Senior College and Graduate students.
Mj
PROFESSOR SMALL
[Not to be given in 1907–8]

81. **Social Forces in Modern Democracy: France and Germany.**—Courses 79, 80, 81 apply the methods of sociological analysis for the purpose of discovering the peculiar form, spirit, and content of democracy, so far as it has appeared in the countries treated. These courses aim to test the validity of the abstract sociology outlined in Courses 94, 95, 96.
PROFESSOR SMALL
[Not to be given in 1907–8]

82, 83, 84. **Seminar: Present Problems in General Sociology.**
3Mj. Autumn, Winter and Spring Quarters
PROFESSOR SMALL

85, 86, 87. **Seminar: Problems of Social Dynamics.** In this course the facts of Social Psychology are studied with reference to the possibilities of telic progress. 3Mj
PROFESSOR SMALL
[Not to be given in 1907–8]

88, 89, 90. **Seminar: Problems in Methodology and Classification.** PROFESSOR SMALL
[Not to be given in 1907–8]

94. **Survey of General Sociology.** — Introduction to the system of sociology developed in Course 95 and concluded in Course 96. Senior College and Graduate students.
Mj. Autumn Quarter; 9:30
PROFESSOR SMALL

95. **The Conflict of Classes in Modern Society.**—An attempt to explain present social conditions in terms of the general social process analyzed in Course 94. Mj. Winter Quarter; 9:30
PROFESSOR SMALL

96. **The Ethics of Sociology.**—An exhibit of the meaning of sociological analysis for positive ethics. The inconclusiveness of all the categorical theories of ethics is exhibited, and the thesis is sustained that every ethical system with a concrete content necessarily presupposes a sociology.
Mj. Spring Quarter; 9:30
PROFESSOR SMALL

100. **Organization of Religious Education.**— Psychology of religion; ethical ideals; principles of instruction; nurture; methods of organization. Primarily for Graduate students; Senior College students admitted.
Mj. Winter Quarter, 1907; 11:00
PROFESSOR HENDERSON

In the Winter Quarter Professor Small will give an Open Lecture at 4 o'clock Friday of each week on "The Relations of Sociology to the Other Departments of Social Science." The course is intended for Graduate Students who do not make Sociology a principal or secondary subject. It may also serve as a review course for sociological students.

Unique advantages supplemental to the sociological and economic courses at the University are offered by the field-work and practical training in civic, philanthropic, and social work under the auspices of the Chicago Institute of Social Science. Credits will be given for satisfactory work taken under the direction of Professor Graham Taylor, who is Director of the Institute. With the co-operation of many practical specialists and the charitable, reformatory, civic and social agencies, both public and private, in and about

Chicago, opportunities for the observance of social conditions, the inspection of institutions, and special studies under expert direction are thus opened to students. The aim of the Institute is not only to provide a basis of general knowledge for intelligent interest and participation in whatever promotes the welfare of the community, but also to offer a more technical preparation for professional and volunteer service in specific lines of organized philanthropic and social effort. Courses of training are given each year in "Causes and Treatment of Dependency," "The Care of Delinquents and Defectives," "The Leadership of Children's Club and Outing Work," "Welfare Work" in connection with mercantile and manufacturing establishments, "Institutional Administration," and 'Social Tendencies of Modern Industry."

THE COLLEGE OF RELIGIOUS AND SOCIAL SCIENCE

The College of Religious and Social Science is an organization of undergraduate courses conducted at the University and leading to the degree of Ph.B. It is co-ordinate with the other Colleges of the University. Circulars of information will be sent on application to the Deans of the Divinity School, University of Chicago. The courses in Social Science are under the direction of the instructors in Sociology, and students are permitted to avail themselves of the lectures given by specialists in the Institute of Social Science and Arts, and to receive credits for work done in the Institute.

VI A. THE DEPARTMENT OF HOUSEHOLD ADMINISTRATION

OFFICERS OF INSTRUCTION

A. INSTRUCTORS ATTACHED TO THE DEPARTMENT OF HOUSEHOLD ADMINISTRATION

MARION TALBOT, A.M., LL.D., *Professor of Household Administration.*
ALICE PELOUBET NORTON, A.M., *Assistant Professor of Household Administration.*
SOPHONISBA PRESTON BRECKINRIDGE, Ph.D., J.D., *Instructor in Household Administration.*

B. INSTRUCTORS IN OTHER DEPARTMENTS OFFERING INSTRUCTION IN THIS DEPARTMENT

CHARLES RICHMOND HENDERSON, Ph.D., D.D., *of the Department of Sociology.*
CHARLES ZUEBLIN, Ph.B., D.B., *of the Department of Sociology.*
WILLIAM ISAAC THOMAS, Ph.D., *of the Department of Sociology.*
GEORGE EDGAR VINCENT, Ph.D., *of the Department of Sociology.*
JULIUS STIEGLITZ, Ph.D., *of the Department of Chemistry.*
ALEXANDER SMITH, Ph.D., *of the Department of Chemistry.*
HERBERT NEWBY McCOY, Ph.D., *of the Department of Chemistry.*
LAUDER WILLIAM JONES, Ph.D., *of the Department of Chemistry.*
FRANK RATTRAY LILLIE, Ph.D., *of the Department of Zoölogy.*
DAVID JUDSON LINGLE, Ph.D., *of the Department of Physiology.*
EDWIN OAKES JORDAN, Ph.D., *of the Department of Bacteriology.*
NORMAN MacLEOD HARRIS, M.B., *of the Department of Bacteriology.*
LILLIAN SOPHIA CUSHMAN, *of the School of Education.*
CLARA ISABEL MITCHELL, *of the School of Education.*
ELIZABETH SPRAGUE, *of the School of Education.*
AMY LOUISE DANIELS, *of the School of Education.*

FELLOW, 1906–7

MABEL THATCHER WELLMAN, A.B.

INTRODUCTORY

The courses in this Department are planned to give students (1) a general view of the place of the household in society as a means of liberal culture; (2) training in the rational and scientific administration of the home as a social unit; (3) preparation to serve as teachers of Home Economics, Domestic Science, and Household Arts, or as social workers in institutions whose activity is largely expressed through Household Adminis-

tration. The regular courses of the Department are supplemented by courses offered by instructors in other departments. Special attention is called to the courses in the Departments of Sociology, Chemistry, Zoölogy, Physiology, and Bacteriology, and to the announcements of the School of Education. Certain of these courses are closely related with the work in the Department of Household Administration and under certain restrictions may be accepted as work done in the Department itself.

In general the courses are open to Graduate and Senior College students and to Unclassified students who have had special preliminary training. Certain courses are also open as electives to Junior College students. In the case of students desiring to pursue a special line of work or to fit themselves for some particular field of activity, the instructors will give assistance in organizing courses of study. The work of this as of other departments may be used under the rules of the University toward fulfilling the requirements for the different degrees.

Students who expect to be candidates for the Master's or Doctor's degree and to take their principal or secondary work in the Department of Household Administration should secure the approval of the Department before beginning work. See pp. 11, 12.

Opportunities are afforded for gaining practical experience in housekeeping, lunch-room management, marketing, household accounting, and teaching. There are frequent occasions for active participation in such philanthropic work as supplements the instruction of the classroom. In addition to the special library of the Department there are closely related collections of books in the libraries of the Departments of Economics, Sociology, Chemistry, Biology, and of the School of Education.

The Household Administration Club meets fortnightly to discuss important new literature, to present results of investigations carried on by instructors and students in the Department, and to hear specialists on topics not fully treated in the regular curriculum.

One Fellowship is assigned to the Department for 1906–7.

COURSES OF INSTRUCTION

42. **House Sanitation.**—This course deals with the house as a factor in health and includes a study of the following topics: situation, surroundings, ventilation, heating, drainage, plumbing, lighting, and furnishing. Special attention will be given to modern conceptions of cleanliness, and to the investigation of general sanitary conditions from a practical and scientific standpoint, and with special reference to the needs of the community, the household, and the school.

Mj. Summer Quarter; 10:30
Mj. Spring Quarter; 11:00
PROFESSOR TALBOT

43. **Food Supplies and Dietaries.**—The nutritive and money values of foodstuffs; the application of heat to food principles; adulterations; methods of preservation; sanitary and economic aspects of food; popular misconceptions as to foods.

Mj. Summer Quarter; 11:30
Mj. Autumn Quarter; 11:00
PROFESSOR TALBOT

44. **Administration of the House.**—This course will consider the order and administration of the house with a view to the proper apportionment of the income and the maintenance of suitable standards. It will include a discussion of the domestic-service problem. Open to Junior College students. Mj. Winter Quarter; 11:00
PROFESSOR TALBOT

45, 46, 47. **Modern Problems in Household Administration.**—This work will be conducted only for students capable of carrying on independent investigations. It will deal with new and unsettled problems whose solution will help place the subject of Household Administration on a more secure scientific basis. The topics assigned will be chemical, physiological, bacteriological, economic, or sociological, according to the preferences and training of the individual students.

3Mj. Autumn, Winter, and Spring Quarters; Tu., Th., 3:00–5:00.
PROFESSOR TALBOT

50, 51, 52, 53. **Special Research.**—Open only to students who have had special training and experience.

4Mj. Summer, Autumn, Winter, and Spring Quarters.
THE INSTRUCTORS IN THE DEPARTMENT

122. **Food and Dietetics.**—The nature, nutritive constituents, and relative values of foods; typical

processes of food production; the cost of food; dietaries. Mj. Winter Quarter
Lectures: Mon., Th., Fri., 9:30.
Laboratory: Tu., Wed., 2:00–4:00 and 8:30–10:30. ASSISTANT PROFESSOR NORTON AND MISS ————
Prerequisite: *Course 123 and General Chemistry.*

123. **The Application of Heat to Food Materials.**—The methods by which heat is applied to food, and the changes caused in the different food constituents; household fuels and their uses; cooking apparatus and the principles of its construction; primitive and modern methods of cookery. M. First Term, Summer Quarter
Lectures: Mon., Wed., Fri., 8:00.
Laboratory: Tu., Th., 8:00–10:00.
MISS SPRAGUE
Mj. Autumn Quarter
Lectures: Mon., Th., Fri., 9:30.
Laboratory: Tu., Wed., 2:00–5:00.
ASSISTANT PROFESSOR NORTON AND MISS ———

124. **Special Methods in the Preparation of Food.**—Advanced work in experimental cookery.
M. Second Term, Summer Quarter
Lectures: Wed., Fri., 9:00.
Laboratory: To be arranged.
MISS DANIELS
Mj. Autumn Quarter
Lectures and Laboratory.
ASSISTANT PROFESSOR NORTON AND MISS ———
Prerequisite: *Course 122, or 43 with 123 or 121.*

125. **Chemistry of Foods.**—The different food principles, with methods of identifying and separating them; food adulterations and household methods for their detection.
M. First Term, Summer Quarter
Lectures: Wed., Fri., 9:00.
Laboratory: To be arranged.
MISS SPRAGUE
Mj. or ½Mj. Spring Quarter
Hours to be arranged.
ASSISTANT PROFESSOR NORTON
Prerequisite: *General Chemistry and Course 122, or Course 43.*

125 A. **Chemistry of Foods.**
Mj. Spring Quarter
ASSISTANT PROFESSOR NORTON
Prerequisite: *Qualitative and Organic Chemistry, Course 122 or Course 43 and 123.*

126. **Special Problems in Food Chemistry.**—Laboratory work. Individual problems assigned for investigation.
Mj. Spring Quarter
Hours to be arranged.
ASSISTANT PROFESSOR NORTON
Prerequisite: *Course 125.*

127. **Evolution of the House.**—The development of the modern house from primitive conditions; modern household problems of furnishing, equipment and care.
Lectures and Laboratory.
Mj. Autumn Quarter; 11:00
ASSISTANT PROFESSOR NORTON

128. **The Teaching of Home Economics.**—The purpose and method of the work; courses of study; school equipments; the relation of the subject to other studies and to the life of the school; practice teaching and laboratory work.
M. Second Term, Summer Quarter
Lectures: Mon., Wed., Fri., 8:00.
Laboratory: Tu., Th., 8:00–10:00.
MISS DANIELS
Mj. Winter Quarter; 11:00
ASSISTANT PROFESSOR NORTON

10. **The Organization of the Retail Market.**—An elementary course intended to familiarize the student with the machinery of trade with which the householder comes into direct contact. The following topics will be considered: the development of present methods of distribution from mediæval forms; the present specialized system, as illustrated by selected industries, which deal with food, clothing, and household equipment; the department and catalogue store; and the employment agency as the means by which a distribution of domestic labor is effected. Visits will be made to typical distributive establishments. Open to Junior College students.
Mj. Winter Quarter; 8:30
DR. BRECKINRIDGE
Prerequisite: *Nine Majors.*

11. **The Consumption of Wealth.** — Standards of living; necessaries for life and for efficiency; comforts; luxury and extravagance; saving and spending; organized efforts among consumers to control production; co-operation; the Consumers League; trade unions; legislation; municipalization. Mj. Autumn Quarter; 8:30
DR. BRECKINRIDGE
Prerequisite: *Nine Majors.*

20. **The State in Relation to the Household.** — A course intended to review the relations between the householder and the public, as represented by federal, state, or municipal authority. The law requiring the head of a family to furnish support, and legislation tending to maintain the unity of the family will be considered. Regulations concerning the food supply, the materials used in clothing and furnishings, and the structure and care of the building will be studied, in order to formulate the principles upon which a proper degree of individual freedom may be adjusted to the necessary amount of public control. Open to Senior College and Graduate students.

Mj. Spring Quarter; 8:30
Dr. Breckinridge

21. **The Legal and Economic Position of Women.**— A study of the status of women with reference to their property; the effect of marriage; their share in the control of children; their opportunities as wage-earners and producers; their functions as householders and consumers. Open to Senior College and Graduate students.

Mj. Summer Quarter; 1:30
Dr. Breckinridge

VII. THE DEPARTMENT OF COMPARATIVE RELIGION

OFFICERS OF INSTRUCTION

GEORGE BURMAN FOSTER, A.M., Ph.D., *Professor of the Philosophy of Religion.*
EDMUND BUCKLEY, Ph.D., *Docent in Comparative Religion* (Summer Quarter).

INTRODUCTORY

The regular work in the Department is devoted to the three branches of Comparative Religion, viz., History and Philosophy of Religion, and Comparative Theology. An elementary major course is offered to all who wish to gain a survey of the field. Special courses on the history of primitive beliefs, the Indo-European Religions, and the Semitic Religions provide for a year's classroom work. At this stage the student is prepared for courses in the Introduction to Religion and in the Philosophy of Religion. The research courses provide for advanced investigation in which all the resources of the student are demanded. Courses 1–8 and the research courses are required when Comparative Religion is taken as a major subject for the degree of Doctor of Philosophy, and Courses 1–4, two courses selected from Nos. 5–8, and one research course are required of one who takes Comparative Religion as a minor subject for the same degree. Equivalents for these courses to the number of three majors, selected from other related departments of the University, will be accepted, but the selection must be approved by this Department before the student undertakes the work, and their credit value will not always be accepted as equal to courses in the Department itself.

Two "Lectureships" on the *Relations of Christianity to the other Religions*, established by the late Mrs. Caroline E. Haskell, are under the direction of this Department. The "Haskell Lectures" are delivered at the University yearly. The "Barrows Lectures" are delivered every three years in cities of India.

University Fellowships, yielding incomes of from $520 to $320, are open to students in Comparative Religion on equal terms with students in other departments and are assigned yearly in accordance with the University regulations governing Fellowships.

The rooms of the Department are in the Haskell Oriental Museum, where the collections of illustrative materials for the study of religions are gathered and arranged for the use of students. The Buckley collection of religious objects of Shinto and Japanese Buddhism, unequaled in America, affords a valuable body of material for the study of Ethnic Religion. Maps, photographs, casts, and a carefully selected library of the standard works, constantly enlarged by the addition of the newest books in the field, are at the disposal of students. The libraries and collections of the Departments of Semitic Languages, including Egyptology, Assyriology, etc., of Biblical Studies, of Church History and of Theology, contained in the same building, greatly enlarge the working facilities of the Department.

COURSES OF INSTRUCTION *

1. **An Outline History of Religion.**
Mj. Summer Quarter; 1:30
PROFESSOR FOSTER

2. **Religions of Primitive Peoples.**
[Not to be given in 1907–8]

3. **Religions of the Semites.**—Babylonia, Egypt, Syria and Palestine, Phœnicia, Islam.
[Not to be given in 1907–8]

4. **Religions of the Indo-European Peoples.**—India, Persia, Greece and Rome, Kelts and Teutons.
The course will be limited this term to a study of Buddhism.
[Not to be given in 1907–8]

5. **Introduction to Comparative Religion.**
[Not to be given in 1907–8]

6. **History of the Philosophy of Religion.** Mj
PROFESSOR FOSTER
[Not to be given in 1907–8]

7. **The Science of Religion.**
DR. BUCKLEY

8. **The Philosophy of Religion.**—Höffding used as text. Autumn Quarter, 1907
PROFESSOR FOSTER

9. **Fundamental Problems of the History of Religion.** (Haskell Lectures.) No credit is given for this course.

10. **Comparative Theology.**—Research.
[Not to be given in 1907–8]

11. **History of Religious Thought from the Reformation to Kant.** Mj. Autumn Quarter, 1907
PROFESSOR FOSTER

12. **Kant's Theory of Religion.**
Mj. Winter Quarter, 1908
PROFESSOR FOSTER

13. **Philosophy of Religion from Kant to Hegel.** Mj
Spring Quarter, 1908
PROFESSOR FOSTER

14. **Hegel's Philosophy of Religion.**
Mj. Autumn Quarter, 1908
PROFESSOR FOSTER

15. **Schleiermacher's "Glaubenslehre."**
Mj. Autumn Quarter, 1908
PROFESSOR FOSTER

16. **Religious Thought from Schleiermacher and Hegel to Ritschl.** Summer Quarter, 1908
PROFESSOR FOSTER

17. **Albrecht Ritschl and His School.**
Mj. Autumn Quarter, 1908
PROFESSOR FOSTER

18. **English Philosophy of Religion.** Mj
PROFESSOR FOSTER

19. **Philosophy of Religion, I.**—The Knowledge Problem. Mj
PROFESSOR FOSTER

20. **Philosophy of Religion, II.**—The Worth Problem. Mj
PROFESSOR FOSTER

21. **The Essence of the Christian Religion.** Mj
PROFESSOR FOSTER

22. **The Truth of the Christian Religion.**
Mj. Summer Quarter, 1908
PROFESSOR FOSTER

23. **The Dogmatics of the Christian Religion.** Mj
PROFESSOR FOSTER

24. **The Ethics of the Christian Religion.**
Mj. Summer Quarter; 2:30
PROFESSOR FOSTER

25. **Relation Between Religion and Morality.**
Mj. Spring Quarter, 1908
PROFESSOR FOSTER

26. **Kaftan's "Dogmatik".** Winter Quarter, 1908
PROFESSOR FOSTER

COURSES IN RELATED DEPARTMENTS

The following courses in other departments deal with subjects closely related with the work in the Department of Comparative Religion, and under certain restrictions will be accepted as work done in the Department itself:

I, 45. **The Evolution of Morality.**
PROFESSOR TUFTS

IA, 22. **Psychology of Religion.** DR. AMES

VI, 27. **Development of Mind in the Race.**
ASSOCIATE PROFESSOR THOMAS

VI, 30. **Primitive Social Control.**
ASSOCIATE PROFESSOR THOMAS

VIII, 120. **Rabbinical Literature and Life.**
PROFESSOR HIRSCH

VIII, 164. **Assyrian Syllabaries and Mythological Inscriptions.** PROFESSOR HARPER

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*Courses in this Department are primarily for Graduate students, and are open to undergraduates only after consultation with the instructor.

VIII, 166. **Babylonian Psalms, Prayers, and Addresses.** PROFESSOR HARPER

VIII, 168. **Religious Texts.** PROFESSOR HARPER

VIII, 190. **Arabic Treatises on Mohammedan Eschatology.** PROFESSOR JEWETT

VIII, 200. **Life of Mohammed.** PROFESSOR JEWETT

VIII, 202. **The Qurân in English.** PROFESSOR JEWETT

VIII, 204. **The Spread of Islam.** PROFESSOR JEWETT

VIII, 218. **Pyramid Texts.** PROFESSOR BREASTED

X, 13. **Readings in the Upanishads.** DR. MEYER

X, 26. **Vedic Seminar.** DR. MEYER

XI, 42. **Introduction to Greek Mythology.** ASSOCIATE PROFESSOR OWEN

XI, 63. **Greek Philosophical Literature.** PROFESSOR SHOREY

XII, 53. **Roman Religion.** ASSOCIATE PROFESSOR LAING

IX, 69. **Doctrine of Atonement in the New Testament.** PROFESSOR BURTON

XLIV, 22. **Theological Significance of Leading Movements of Thought in the Nineteenth Century.** ASSOCIATE PROFESSOR SMITH

VIII. THE DEPARTMENT OF SEMITIC LANGUAGES AND LITERATURES

OFFICERS OF INSTRUCTION

ROBERT FRANCIS HARPER, PH.D., *Professor of the Semitic Languages and Literatures.*
EMIL GUSTAV HIRSCH, A.M., D.D., LL.D., LIT.D., *Professor of Rabbinical Literature and Philosophy.*
IRA MAURICE PRICE, PH.D., LL.D., *Professor of the Old Testament Language and Literature.*
JAMES RICHARD JEWETT, PH.D., *Professor of the Arabic Language and Literature.*
JAMES HENRY BREASTED, PH.D., *Professor of Egyptology and Oriental History; Director of Haskell Oriental Museum.*
HERBERT LOCKWOOD WILLETT, PH.D., *Assistant Professor of the Old Testament Language and Literature.*
REGINALD CAMPBELL THOMPSON, A.M., *Assistant Professor of the Hebrew Language and Literature.*
JOHN MERLIN POWIS SMITH, PH.D., *Instructor in the Old Testament Language and Literature.*
DANIEL DAVID LUCKENBILL, PH.D., *Associate in the Semitic Languages and Literatures.*

EDGAR JOHNSON GOODSPEED, PH.D., *Assistant Professor of Biblical and Patristic Greek; Assistant Director of Haskell Oriental Museum.*

FELLOWS, 1906-7

CHARLES ELLSWORTH HORNE, A.B., A.M.
ROWLAND HECTOR MODE, A.B., A.M.
ROBERT JAMES McKNIGHT, A.B.
ROBERT BROWN McSWAIN, A.M., D.B.

INTRODUCTORY

HEBREW LANGUAGE AND LITERATURE

It is believed that with close application the student may gain a practical knowledge of the Hebrew language within a comparatively short time. The courses in beginning Hebrew and in Hebrew History are arranged not only for students in the Divinity School who desire to lay a foundation for critical and exegetical work in the Old Testament, but likewise for those who are contemplating a more extended study of the Semitic languages. The first course covers the Elements of the Hebrew Grammar and secures a vocabulary of three to four hundred words. In a second course, besides a large amount of reading, in connection with which the vocabulary of the student is increased, the principles of Hebrew Syntax are studied. After this course the student is permitted to select any of the courses offered in the Department in which a knowledge of Hebrew is required.

The more advanced courses cover the principal portions of the Old Testament considered from every point of view. In this work two things are kept in mind:

1. The securing of an acquaintance with all the more important problems of Old Testament language, literature, and thought.

2. A scientific method of work which will enable the student to carry on for himself original investigation,

RABBINICAL LANGUAGE AND LITERATURE

In the Rabbinical Section the courses are intended to meet the requirements of (1) students in Semitic Philology; (2) students in New Testament Literature, Comparative Religion, History, and Philosophy; and (3) students intending to prepare for the Jewish ministry. It is believed that in connection with the courses in the Departments of Semitic Languages and Literatures, History, and Philosophy in this University, those in Rabbinical literature will enable candidates for the Jewish ministry to equip themselves most thoroughly for their vocation.

ASSYRIAN LANGUAGE AND LITERATURE

It is the purpose of this section to study the Assyro-Babylonian language and literature both from the standpoint of the grammar and lexicon, with special reference also to comparative Semitic lexicography geography, and institutions; and also as one of the most important helps, lexicographically, historically, and geographically, to scientific work in any of the other Semitic languages or literatures.

ARABIC LANGUAGE AND LITERATURE

The courses offered in Arabic are intended to cover quite minutely the grammar and syntax of the language, whether the work is done primarily for the help afforded the student of Hebrew or Assyrian, or for a more detailed study of Arabic grammar for its own sake. Special attention is given to the Qurân, and provision is also made for courses of an extended character in Arabic commentary, history, geography, and inscriptions. While the majority of students doubtless study Arabic for the light which it throws upon Hebrew grammar, it is believed that the field of Arabic literature is one which is more and more deserving of the attention of American students. Particular attention is given to the comparative aspects of Arabic grammar, both etymology and syntax.

EGYPTIAN LANGUAGE, LITERATURE, AND ARCHÆOLOGY

The time seems to have come for American students to direct their attention, at least in some degree toward study in the great Egyptian field. An opportunity is therefore offered, (1) to those who wish merely to gain a general conception of the Egyptian field, (2) but also to those who may wish to give special attention to Egyptian literature or archæology. The original materials accessible to the student here are unusually plentiful. They comprise: (1) the Egyptian collection of the Art Institute; (2) the collection of the Field Columbian Museum; (3) the collections in Haskell Museum.

ARRANGEMENT OF WORK

Some familiarity with the contents of the Old Testament is an essential part of a liberal education. Hence the department seeks to provide work adapted to the needs of the general student of literature and history. Certain courses, therefore, e. g.: 75 and 76, are organized especially for the non-theological student.

The work of the student of Semitic or Old Testament ordinarily will be arranged according to one of five plans:

I. The preliminary work includes courses in the Hebrew language aggregating four majors. These courses viz., (*a*) 1; (*b*) 2, or 4; (*c*) 22, or 24, or 36, or 38; (1) constitute the work in Hebrew prescribed for those students in the Graduate Divinity School who desire to secure a knowledge of the language, and (2) serve as the basis for more advanced work in the Semitic Languages and Literatures, or in the Old Testament Literature and Theology. Students who have already performed this work before entering the University of Chicago will receive credit for the same upon examination.

II. Old Testament Literature and Theology, when presented as a secondary subject for a Doctor's degree will be understood to include, in addition to the preliminary courses, work amounting to six majors, which shall be systematically arranged, and be approved by the Head of the Department. The student is recommended to select either (1) three historical courses (viz., 113, 114, 115), with three courses in exegesis selected from the courses offered, or (2) work made up from Courses 36, 38, 42, 48, 50, 54, 80–82, 84, 85; or (3) work in Rabbinical literature and theology, selected from Courses 120–139.

III. When a secondary subject is offered in Semitic Languages and Literatures, the student may select either Aramaic, Arabic, Assyrian, or Egyptian, in an amount equal to at least six majors.

IV. Old Testament Literature and Theology, when presented as a principal subject, will be understood to include (1) a thorough knowledge of the Hebrew language, including syntax and lexicography, and a good acquaintance with biblical Aramaic and Syriac; (2) an ability to read any part of Hebrew literature; (3) a knowledge of Hebrew history in all its periods, and of ancient history, especially Egyptian, Assyro-Babylonian Persian, and Greek in its bearing upon the Old Testament; (4) an acquaintance with the chronological development of Old Testament literature in its various forms of legislation, prophecy, and wisdom; also a knowledge of the origin and growth of the canon, of the text, and of the principles of Old Testament interpretation; (5) a familiarity with the history of the Hebrew religion and the development of the theological ideas of the Hebrews; (6) some familiarity with the Rabbinical literature and a general acquaintance with New Testament literature, with special reference to the use made of the Old Testament in the New Testament.

V. When the student selects for his principal subject the Semitic languages, he will be expected to have gained a working knowledge of Aramaic, Assyrian, and Arabic, in addition to Hebrew. He will be permitted to lay special emphasis upon either Hebrew, Arabic, Assyrian, or Egyptian, and in the special field which he thus selects the amount of work required will be determined in part by the character of the field itself, and also in part by the general scope of his work. In any case, work in comparative grammar and comparative lexicography will be expected. The total amount of work required for a degree cannot be stated in definite form.

COURSES OF INSTRUCTION

Remark: In the Semitic Department all courses are intended primarily for Graduate and Divinity students, but they may be taken by Senior College students who are prepared therefor.

I. Hebrew Language and Old Testament Literature

1. Linguistic Courses

1. **Hebrew Language.**—Gen., chaps. 1–8; including the grammatical principles of the language, the acquisition of a vocabulary, and translation of English into Hebrew. The ground covered in Harper, *Introductory Hebrew Method* and *Elements of Hebrew.*

   This course is given twice each year, viz.:

   DMj or 2DM. Summer Quarter; 8:00 and 11:30. Dr. Smith and Assistant Professor Thompson

   2Mj. Autumn and Winter Quarters, 1907, 1908. Professor Price and Assistant Professor Thompson

2. **Historical Hebrew.** *The Books of Samuel.*—Critical translation of portions, with a study of Hebrew Syntax. Continuation of Course 1.

   Summer Quarter, 1907
   Dr. Luckenbill

   Mj. Spring and Autumn Quarters, 1907, 1908; 8:30. Assistant Professor Thompson

3. **The Book of Joshua.**—Critical translation, and review of grammar.

   Assistant Professor Thompson

4. **The Books of Kings.**—Critical translation of the more important portions, with special reference to etymology and chronology.

   Mj. Autumn Quarter, 1909
   Professor Price

5. **Deuteronomy.**—A critical translation, with special reference to syntax.

   Mj. Winter Quarter, 1908
   Assistant Professor Thompson

8. **Hebrew Sight Reading.** The Prophetic Books.

   Mj. Autumn Quarter, 1907
   Assistant Professor Thompson

9. **Prophetic Hebrew.**—Critical translation of easier portions of the prophetic writings.

   Mj. Spring Quarter, 1907
   Assistant Professor Thompson

10. **Proverbs.**—A critical reading of selected portions with special reference to Hebrew Lexicography.

    Assistant Professor Thompson

12. **Advanced Hebrew Grammar.**—Etymology.

    M. Second Term, Summer Quarter, 1907
    Assistant Professor Thompson

13. **Advanced Hebrew Grammar.**—Syntax.

    M. First Term, Summer Quarter, 1907
    Assistant Professor Thompson

2. Critical and Exegetical Courses

A. Hebrew

20. **Books of Kings and Their Parallel Assyrian Records.**—Historical and critical work.

    Mj. Autumn Quarter, 1908
    Professor Price

22. **Isaiah, chaps. 1–39.**—Critical reading of the material, with an interpretation of the prophecies, and a study of the life and times of Isaiah.

    Mj. Autumn Quarter, 1907
    Professor Price

23. **Isaiah, chaps. 40–66.**—A critical reading of the

material with a study of the prophecies as illustrating exilic and post-exilic conditions.
Mj. Winter Quarter, 1908
PROFESSOR PRICE

24. **Jeremiah.**—Attention will be given to the political conditions in Judah's decline, and the waning of religious life as a background of Jeremiah's utterances; the book will be arranged and interpreted in chronological order.
Mj. Spring Quarter, 1908
PROFESSOR PRICE

26. **Ezekiel.**— Condition of the exiles; Babylonian government; Ezekiel's character; analysis and translation of selected sections.
Mj. Summer Quarter, 1908
PROFESSOR PRICE

27. **Daniel.**—Translation and interpretation of the book in the light of the historical conditions amid which it arose. Mj. Spring Quarter, 1909
DR. SMITH

28. **The Later Minor Prophets.**—Critical and exegetical study of the language, contents, and teachings of these prophets.
Mj. Spring Quarter, 1907
DR. SMITH

30. **The Psalter.**—The formation of the Psalter; characteristics of the Psalms as to style and authorship; critical translation of selected Psalms; their classification and use.
Mj. Winter Quarter, 1909
PROFESSOR PRICE

32. **Hebrew Poetry and Poetics.**—A study of the development of Hebrew poetry with special reference to metrical and strophic form.
Mj. Autumn Quarter, 1907
DR. SMITH

34. **History of Hebrew Legislation.**—A study of the growth of Hebrew law in the light of (*a*) contemporaneous Hebrew thought and (*b*) the code of Hammurabi. DR. SMITH

35. **The Book of Deuteronomy.**—A study of (*a*) the origin and contents of the Deuteronomic Code; (*b*) the causes and results of the reformation under Josiah, and an exegetical study of certain portions of Deuteronomy.
PROFESSOR PRICE

38. **Prophecy, and the History of Prophecy.**—A study of prophecy upon the basis of a classification of the prophetic material according to (1) the historical periods, (2) the work of the prophet, (3) the principal ideas of prophecy. Prerequisite: Courses 80 and 81, or their equivalent. Mj. Autumn Quarter, 1907
DR. SMITH

40. **Messianic Prophecy.** — A study in chronological order of the Messianic prophecies of the Old Testament. Mj. Spring Quarter, 1909
PROFESSOR PRICE

42. **Hebrew Philosophy and Ethics.**—A study of the contents of Job, Proverbs, Ecclesiastes, and the later Psalms, including a study of Hebrew Philosophy in general. [This course is open only to those who are able to read Hebrew fluently.]
Mj. Autumn Quarter, 1908
DR. SMITH

44. **Job.**— A study of the literary form, the thought content, the linguistic peculiarities, and the chief teachings of the book.
Mj. Summer Quarter, 1907
DR. SMITH

46. **Proverbs.**—Reading and interpretation of selected portions, with a study of (*a*) the origin of the various collections, (*b*) the poetical form, (*c*) the linguistic characteristics. Mj
ASSISTANT PROFESSOR THOMPSON

47. **Ecclesiasticus.**
Mj. Spring Quarter, 1909
DR. SMITH

48. **The Form and Contents of Early Old Testament Traditions.**—(1) A study of the several documents of which the Hexateuch is composed; and (2) a comparison of the early Hebrew traditions with similar traditions of other peoples.
Mj. Winter Quarter, 1909
DR. SMITH

50. **Micah.**—A Seminar.
Mj. Winter Quarter, 1909
DR. SMITH

53. **Isaiah 1–12.** A Seminar.
Mj. Summer Quarter, 1908
PROFESSOR PRICE

54. **Problems of the Religion of the Hebrews.**—Seminar. DR. SMITH

55. **The Eschatology of the Old Testament.**—Seminar. Mj. Winter Quarter, 1909
DR. SMITH

56. **The Religion of Israel prior to the Exile.**
Mj. Spring Quarter, 1907
DR. SMITH

57. **The Religion of Israel after the Exile.**
Mj. Summer Quarter, 1907
DR. SMITH

58. **Important Theological Words in Hebrew.**—Seminar. DR. SMITH

B. English

60. **Isaiah, chaps. 1–39.**—Arrangement in chronological order, analysis, and interpretation of the different prophecies.
M. First Term, Summer Quarter, 1908
ASSISTANT PROFESSOR WILLETT

61. **Isaiah, chaps. 40–66.**—In this course the effort will be made to master the contents of the chapters and to study the progress of the thought.
M. Second Term, Summer Quarter, 1908
ASSISTANT PROFESSOR WILLETT

62. **Jeremiah.**
M. First Term, Summer Quarter, 1908
ASSISTANT PROFESSOR WILLETT

64. **The Psalter** (in English).
M. First Term, Summer Quarter, 1907
ASSISTANT PROFESSOR WILLETT

65. **The Book of Job.**
M. Second Term; Summer Quarter, 1907
ASSISTANT PROFESSOR WILLETT

66–68. **The Priestly Work in the Old Testament.**
66. *Priest Codes;* the Hebrew Laws, their form and contents, especially Deuteronomy and Leviticus.
DR. SMITH
67. *Priest History;* especially the Books of Chronicles, Ezra, and Nehemiah.
DR. SMITH
68. *Priest Psalms;* that is, the Psalms as they were used for worship.
PROFESSOR PRICE

69. **The Problem of Suffering in the Old Testament.**—For students with no knowledge of Hebrew.
¼ or ½ Mj. Summer Quarter, 1907
DR. SMITH

71. **Isaiah and Micah.**—A study of the historical background of these prophets and their teachings. For undergraduate students who have no knowledge of Hebrew.
¼ or ½ Mj. Autumn Quarter, 1907
PROFESSOR PRICE

72. **Jeremiah.**—For undergraduate students with no knowledge of Hebrew.
¼ or ½ Mj. Winter Quarter, 1908
PROFESSOR PRICE

73. **Isaiah, chaps. 40-66.**—For undergraduate students with no knowledge of Hebrew.
¼ or ½ Mj. Spring Quarter, 1907
DR. SMITH

74. **Biblical Apocalyptic.**—A study of apocalyptic in the Old Testament, with special reference to the Book of Daniel, and comparison of the extra-canonical apocalypses with the Book of Revelation.
Mj. Winter Quarter, 1908
ASSISTANT PROFESSOR WILLETT

75. **The Development of Hebrew Literature.**—An introduction to the literature of the Old Testament from the point of view of its political and social background. *For non-divinity students.*
Mj. Summer and Autumn Quarters, 1907
ASSISTANT PROFESSOR WILLETT

76. **The Literature of the Prophets.**—A study of the writings of the prophets with reference to their teachings and their contribution to a right understanding of the nature of prophecy.
Mj. Winter Quarter, 1908
ASSISTANT PROFESSOR WILLETT

3. INTRODUCTION, ARCHÆOLOGY, AND HISTORY

80–82. **General Survey of Old Testament Literature and History.** — In these courses an attempt will be made to present under four divisions, namely: (1) the beginnings to the disruption of the kingdom; (2) the disruption of the kingdom to the times of Josiah; (3) from the times of Josiah to the times of Ezra; (4) from the times of Ezra to the times of the Maccabees; (*a*) the particular historical events with their relations to contemporaneous history; (*b*) the literary documents; (*c*) the social, industrial, and political data; (*d*) the facts concerning the various religious institutions; (*e*) the general progress of religious thought. These courses are intended to serve as an introduction to the various departments of Old Testament study, and are *required of every candidate for the degree of D.B.* who does not elect Hebrew. (Courses 84 or 85 may be substituted for 81 or 82.) Each course is an independent study and may be taken separately.

80. *Beginnings of Old Testament Literature and History*, including a study of Prophecy.
Mj. Autumn Quarter, 1907
DR. SMITH

81. *The Priestly Element in the Old Testament.*
Mj. Winter Quarter, 1908
DR. SMITH

82. *The Wisdom Element in the Old Testament.*
Mj. Spring Quarter, 1907
DR. SMITH
Mj. Summer Quarter, 1908
PROFESSOR PRICE

84. **The Origin, Growth, and Character of the Prophetic Books.**
A required course. See Courses 80–82.
Mj. Spring Quarter, 1908
PROFESSOR PRICE

85. **Prophetic Element in the Old Testament.**—*A required course.* Mj. Summer Quarter, 1907
ASSISTANT PROFESSOR WILLETT

86. **History of the Canon and Text of the Old Testament.**—A Seminar.
Mj. Winter Quarter, 1909
PROFESSOR PRICE

88. **General Introduction to the Textual Criticism of the Old Testament.** Mj
PROFESSOR HIRSCH

90. **Methodology.**—In this Seminar the aim will be (1) to define the various departments of Old Testament research; (2) to ascertain the relations of these departments to each other; (3) to specify the natural and logical order in which these departments should be taken up; and (4) to indicate the principles and methods which should control research in these departments. A Seminar. Mj. Winter Quarter, 1908
PROFESSOR PRICE

92. **History, Principles, and Methods of Old Testament Interpretation.**—A Seminar.
Mj. Winter Quarter, 1909
PROFESSOR PRICE

96. **Life in Old Testament Times.**—A study of the elements which made up the everyday social, commercial, political, and religious life of the Hebrews and their most influential neighbors.
Mj. Spring Quarter, 1907
PROFESSOR HIRSCH

98. **Palestinian Geography and Archæology.**
Mj. Autumn Quarter, 1908
ASSISTANT PROFESSOR WILLETT

100. **Palestinian Life and Government.**
Mj. Summer Quarter, 1909
ASSISTANT PROFESSOR WILLETT

102. **Modern Discoveries and the Old Testament.**
Mj. Spring Quarter, 1909
PROFESSOR PRICE

104. **Egyptian Archæology and the Old Testament.**
PROFESSOR BREASTED

106. **A Sketch of Hebrew History.**—Guthe's *Geschichte des Volkes Israel* will be read in the classroom for the purpose of acquiring facility in the use of German historical and theological books.
M. Autumn Quarter, 1907
DR. LUCKENBILL

110. **Hebrew History to the Times of Josiah.**
Mj. Summer Quarter, 1908
ASSISTANT PROFESSOR WILLETT

113, 114. **History of the Hebrews.**—These two courses cover in successive steps the history of Israel from the beginning to the Maccabean age. Each course is, however, an independent study, and may be taken separately.

113. *From the Beginnings to Solomon.*
Mj. Autumn Quarter, 1907
ASSISTANT PROFESSOR WILLETT

114. *From Solomon to Nehemiah.*
Mj. Winter Quarter, 1908
ASSISTANT PROFESSOR WILLETT

115. **The Rise of the Jewish State.**—A special study of the documentary sources and the problems of the period from the beginning of the exile to the Maccabean age.
Mj. Autumn Quarter, 1908
ASSISTANT PROFESSOR WILLETT

116. **The Assyrian Period of Hebrew History.**—An advanced course, taking up the problems of the period in the light of the records of both nations. Mj. Spring Quarter, 1908
ASSISTANT PROFESSOR THOMPSON

117. **The Early History of Syria and Palestine.**—A study of movements in this territory from the earliest historical times to the Hebrew Conquest. Mj. Summer Quarter, 1908
ASSISTANT PROFESSOR THOMPSON

II. RABBINICAL LANGUAGE AND LITERATURE

120. **General Introduction to Rabbinical Literature and Life.** Mj. Spring Quarter, 1907
PROFESSOR HIRSCH

122. **Mishnah.**—Reading and interpretation of selected Tracts of the Mishnah.
Mj. Autumn Quarter, 1907
PROFESSOR HIRSCH

124. **Babylonian Talmud.**—Reading of easier (Haggadic) selections, with a view of studying the dialects grammatically and lexicographically.
M. Second Term, Spring Quarter, 1907
PROFESSOR HIRSCH

126. **Babylonian Talmud:** (Advanced.)—Reading of Tract *Berakhoth*, or *Abhodah Zarah* (Babylonian) with Commentaries. Study of language and method. Mj. Autumn Quarter, 1907
PROFESSOR HIRSCH

128. **Jerusalem Talmud.**—Reading of some Tract or

selected portions. Study of the lexicography and dialect will be the feature of this course.
Mj. Autumn Quarter, 1908
PROFESSOR HIRSCH

130. **Halakkic Themes.**—Study from the sources, tracing the ritual practice to its final decision in the Codes. This is a research course for advanced students exclusively. A Seminar.
3 Mj
PROFESSOR HIRSCH

132. **The Civil and Criminal Legislation of the Talmud.** Open to students without knowledge of Hebrew ; and of interest for members of the classes in sociology and political science or comparative jurisprudence. Mj. Winter Quarter, 1908
PROFESSOR HIRSCH

134. **Rabbinical Commentaries on Genesis or other Books of the Old Testament.**—The study of the terminology of the Hebrew grammarians and their writings will be combined with this course.
Mj. Winter Quarter, 1908
PROFESSOR HIRSCH

136. **History of the Jewish Sects:** Pharisees, Sadducees, Essenes, Rabbinites, and Karaites. M
PROFESSOR HIRSCH

138. **Talmudic Analogies to the New Testament.**—A presentation of the correspondences of Rabbinical doctrine with the teachings of the New Testament, and of the life of the Jews during the New Testament century.
M. First Term, Spring Quarter, 1907
PROFESSOR HIRSCH

139. **Rabbinical Philosophy.**—A Seminar. Mj
PROFESSOR HIRSCH

Professor Hirsch will, upon occasion, give opportunities for the reading of Modern Hebrew.

III. ARAMAIC LANGUAGES AND LITERATURES

140. **Biblical Aramaic.**—The elements of Aramaic, including a study of the Aramaic portions of the Books of Ezra and of Daniel.
Mj. Winter Quarter, 1908
PROFESSOR HARPER

142. **Targum.**—Selections from the Targum, with Grammar, Lexicography, and Methods of the Targumim. M
PROFESSOR HARPER

144. **Beginning Syriac.**—Including the material of Nestle's *Grammar*, and selections from the New Testament. Mj. Spring Quarter, 1907
PROFESSOR HARPER

146. **Advanced Syriac.**—Roediger, *Chrestomathia Syriaca;* Land, *Anecdota Syriaca.*
Mj. Spring Quarter, 1908
PROFESSOR HARPER

IV. ASSYRIAN LANGUAGE AND LITERATURE

150. **Assyrian Language.**—A study of the Esarhaddon texts, and of (*a*) the grammatical principles of the language, (*b*) the more common cuneiform signs, (*c*) the use of the Assyriological material for lexicographical purposes.
Mj. Summer and Autumn Quarters, 1907
PROFESSOR HARPER
DR. LUCKENBILL

152. **Early Assyrian Historical Inscriptions.**—Including (*a*) the critical interpretation of Tiglathpileser 1; (*b*) a more rapid reading of the remaining inscriptions from before 745 B.C.
Mj. Autumn Quarter, 1907; 12:00
Mj. Winter Quarter, 1907
PROFESSOR HARPER

154. **Later Assyrian Historical Inscriptions.**—Including (*a*) a critical interpretation of the Ašurbanipal Inscription, with (*b*) a more rapid reading of the remaining historical inscriptions from 745 B. C. to 626 B. C.
Mj. Winter Quarter, 1908
PROFESSOR HARPER

156. **Selected Assyrian Historical Inscriptions.**—With special reference to Assyrian Lexicography.
Mj. Autumn Quarter, 1907
PROFESSOR HARPER

158. **Babylonian Historical Inscriptions.**—Including (*a*) Nebuchadrezzar, East India House (I. Rawlinson, pl. 53–58=59–64); and (*b*) Neo-Babylonian Inscriptions (of Nebuchadrezzar and Nabonidus). Mj. Spring Quarter, 1907; 12:00
PROFESSOR HARPER

160. **Babylonian and Assyrian Contracts.**—Using Meissner, *Beiträge zum altbabylonischen Privatrecht;* Johns, *Assyrian Deeds and Documents ;* Stevenson, *Assyrian and Babylonian Contracts ;* Strassmaier, *Inschriften von Nabonidus.* Mj. Autumn Quarter, 1909
PROFESSOR HARPER

162. **Epistolary Literature.**—(*a*) Letters of the Hammurabi Period, using King, *The Letters and Inscriptions of Hammurabi ;* (*b*) The Tel el-Amarna Letters, using *The Tel el-Amarna Tablets in the British Museum;* Bezold, *Oriental Diplomacy;* and Winckler, *Tel el-Amarna Letters ;* (*c*) The Letters of the Sargon Period,

using R. F. Harper, *Assyrian and Babylonian Letters.* Mj. Winter Quarter, 1908; 8:30
PROFESSOR HARPER

164. **Assyrian Syllabaries and Mythological Inscriptions.**—Using King and Thompson, *Cuneiform Texts from the Babylonian Tablets, etc., in the British Museum.* Autumn Quarter, 1908
PROFESSOR HARPER

166. **Babylonian Psalms, Prayers, and Addresses.**—Using Zimmern, *Babylonische Busspsalmen;* King, *Babylonian Magic and Sorcery;* and Knudtzon, *Assyrische Gebete an den Sonnengott.* M. Autumn Quarter, 1909
PROFESSOR HARPER

168. **Religious Texts.**—The Šurpu and Maḳlû Series of Incantations. Using Zimmern, *Beiträge zur Kenntnis der babylonischen Religion,* and Tallqvist, *Die assyrische Beschwörungsserie Maqlû.* Mj. Spring Quarter, 1907
PROFESSOR HARPER

170. **Astrological Literature.**— Using Thompson, *Reports of the Magicians and Astrologers of Nineveh and Babylon.*
Autumn Quarter, 1907
ASSISTANT PROFESSOR THOMPSON

172. **The Code of Hammurabi.**—A Seminar.
Mj. Winter Quarter, 1908
PROFESSOR HARPER

174. **Earliest Unilingual** (so-called Sumerian) **Cuneiform Inscriptions.**—Using (*a*) Hilprecht's *Old Babylonian Inscriptions,* (*b*) de Sarzec's *Découvertes en Chaldée.* A Seminar.
Mj. Spring Quarter, 1908
PROFESSOR PRICE

175. **The Susian Inscriptions.**—A reading and comparative study of the material discovered at Susa, and published in Scheil's *Mémoire.* A Seminar. Mj. Spring Quarter, 1909
PROFESSOR PRICE

176. **Origin of the Semitic Civilization of Babylonia.** A study of the earliest elements of civilization in the Babylonian valley, and a comparison of these with those of the later Assyro-Babylonian times. A Seminar.
PROFESSOR PRICE

178. **The Old Testament and the Assyro-Babylonian Inscriptions.**—A review of the material in the inscriptions bearing on the Old Testament.
Prerequisites: *A knowledge of Hebrew and Assyrian.* PROFESSOR HARPER

179. **Research Work on Theses.**
2 Mj. Spring and Summer Quarters, 1907
PROFESSOR HARPER

V. ARABIC LANGUAGE AND LITERATURE

180. **Beginning Arabic.**—A study of easy narrative and of (*a*) the grammatical principles of the language, (*b*) the commonest vocabulary, and (*c*) the relation of the Arabic grammatically considered to the Hebrew.
Mj. Spring Quarter, 1907
Mj. Summer Quarter, 1907; 9:30
PROFESSOR JEWETT

182. **Selected Suras of the Qurân.**—Critical translation and interpretation, with Arabic commentary. Mj
PROFESSOR JEWETT

184. **Historical Prose Relative to the Early Period of Islam.**—Critical translation, with interpretation and study of the historical background.
Mj. Spring Quarter, 1907; 11:00
PROFESSOR JEWETT

185 **Arabic Prose.**—Critical translation and grammatical work for advanced students. Mj
PROFESSOR JEWETT

186. **Arabic Grammarians.** — Reading and study of selected portions from these writers. Mj
PROFESSOR JEWETT

188. **Ibn Hisham's Life of Mohammed.**—Reading and interpretation of selected portions.
Mj. Spring Quarter, 1908; 4:00
PROFESSOR JEWETT

190. **Arabic Treatises on Mohammedan Eschatology.**
PROFESSOR JEWETT

192. **Arabic Rhymed Prose.** Mj
PROFESSOR JEWETT

193. Mohammedan History to the Beginning of the Crusades.
Mj. Spring Quarter, 1907; 8:30
PROFESSOR JEWETT

194. **History of the Crusades from the Mohammedan Standpoint.** Mj. Spring Quarter, 1908; 8:30
PROFESSOR JEWETT

195. **History of the Crusades.**—Reading of selections from Arabic sources.
Mj. Summer Quarter, 1907; 8:30
PROFESSOR JEWETT

196. **Philosophical Literature of the Arabians.**—Reading, in the original, of some philosophical trea-

tise, and a study of the philosophical terminology of the Arabians.
Mj. Winter Quarter, 1908
PROFESSOR HIRSCH

198. **Arabic Literature of the Jews.**—Reading of selections from Hirschfeld's *Chrestomathy.*
Mj. Autumn Quarter, 1907
PROFESSOR HIRSCH

200. **Life of Mohammed,** with a critical examination of his main teachings. Mj
PROFESSOR JEWETT

202. **The Qurân in English,** with a critical study of its principal doctrines. Mj
PROFESSOR JEWETT

204. **The Spread of Islam,** being a study of the progress of Mohammedanism, with special reference to the Islam of today.
PROFESSOR JEWETT

VI. EGYPTIAN LANGUAGE AND LITERATURE

210. **Beginners' Hieroglyphic.**—Including the acquisition of the commonest signs and the grammatical principles of the language of the classic period. Mj. Summer Quarter, 1907
DR. LUCKENBILL

212. **Translation of Egyptian Texts** from the classic period. Mj. Summer Quarter, 1909
PROFESSOR BREASTED

214. **Late Egyptian.**—The language of the new empire (Eighteenth to Twentieth Dynasties). (Possible only after pursuing the two preceding courses.) Mj
PROFESSOR BREASTED

216. **Egyptian Literature.**—Rapid reading of the best literary products of Egypt in annals, narrative, and poetry; largely in the original, but with the use of all other materials in translation.
Mj. Autumn Quarter, 1908
PROFESSOR BREASTED

218. **Pyramid Texts.**—A study of the earliest religious texts in the world; with constant comparison with later religious compositions, especially the Book of the Dead.
Mj. Summer Quarter, 1909
PROFESSOR BREASTED

220. **Egyptian Texts of the Græco-Roman Period.**—Including a study of the bilingual inscription of Rosetta; the Decree of Canopus and the Stele of Alexander II.
M. Second Term, Winter Quarter, 1909
PROFESSOR BREASTED

222. **Coptic Language.**—Elementary study of the Sahidic dialect, using Steindorff's *Chrestomathie.* Mj. Autumn Quarter, 1908
PROFESSOR BREASTED

224. **Coptic Language. Sahidic Dialect.**—Translation from the version of the Prophets, and the New Testament, and the tracing of all possible etymologies. Mj. Spring Quarter, 1909
PROFESSOR BREASTED

226. **History of Egypt.**—Giving special attention to the religion, literature, art, and science, and their influence upon subsequent civilization; the condition of Egypt at the probable period of the Israelitish sojourn.
Mj. Summer Quarter, 1909
PROFESSOR BREASTED

228. **Europe and Asia in the Egyptian Monuments.**—A study of the civilization of the Mediterranean basin in the earliest times; the beginnings of European and Asiatic history, according to the monuments in the Nile valley.
M. First Term, Winter Quarter, 1909
PROFESSOR BREASTED

230. **Egyptian Archæology.**—A study of the Nile valley civilization, and its contributions to later Europe as exhibited in its surviving material remains. Mj
PROFESSOR BREASTED

232. **Egyptian Life and Antiquities.** Mj
PROFESSOR BREASTED

234. **History of Oriental Art from the Earliest Times to the Conquests of Alexander.**
PROFESSOR BREASTED

VII. OTHER SEMITIC LANGUAGES AND COMPARATIVE WORK

240. **Samaritan.**—Using Petermann, *Grammatica Samaritana.* ASSISTANT PROFESSOR WILLETT

242. **Phœnician.**—Using Schröder, *Die phönizische Sprache.* Inscriptions and Grammar.
ASSISTANT PROFESSOR WILLETT

244. **Mandaic.**—Noeldeke, *Mandäische Grammatik.* Reading from the Sidrâ Rabbâ.
PROFESSOR HIRSCH

246. **Sabæan and Himyaritic Inscriptions.**
PROFESSOR JEWETT

248. **Beginning Ethiopic.**—Using Dillmann, *Chrestomathia Ethiopica* and Prætorius, *Grammatica Æthiopica.* Mj. Spring Quarter, 1908
ASSISTANT PROFESSOR GOODSPEED

250. **Advanced Ethiopic.**—Using J. Bachmann, *Inedita Æthiopica*, and Charles, *Book of Jubilees*. M. Spring Quarter, 1908
PROFESSOR HIRSCH

252. **North Semitic Inscriptions**, including a study of the Moabite stone, the Siloam inscription, the Sinjirli inscriptions, and others, from the point of view of their contribution to a knowledge of Hebrew, and to a better understanding of Old Testament history and literature.
DR. SMITH

254. **Semitic Seminar I.**—Comparative Semitic Phonology. PROFESSOR PRICE

256. **Semitic Seminar II.**—Comparative Semitic Etymology. Mj. Winter Quarter, 1908
ASSISTANT PROFESSOR THOMPSON

258. **Semitic Seminar III.**—Comparative Semitic Syntax. Mj. Spring Quarter, 1909
PROFESSOR HARPER
Time to be arranged.

260. **Comparative Semitic Lexicography.**—A Seminar. Prerequisites: *Hebrew, Aramaic, Assyrian and Arabic.* PROFESSOR HARPER

IX. THE DEPARTMENT OF BIBLICAL AND PATRISTIC GREEK

OFFICERS OF INSTRUCTION

ERNEST DEWITT BURTON, D.D., *Professor and Head of the Department of New Testament Literature and Interpretation.*
SHAILER MATHEWS, A.M., D.D., *Professor of New Testament History.*
CLYDE WEBER VOTAW, D.B., PH.D., *Assistant Professor of New Testament Literature.*
EDGAR JOHNSON GOODSPEED, D.B., PH.D., *Assistant Professor of Biblical and Patristic Greek; Assistant Director of Haskell Oriental Museum.*
HENRY BURTON SHARMAN, PH.D., *Instructor in New Testament Literature.* (Spring Quarter, 1907.)

FELLOWS, 1906–7

FRANKLIN HERMON GESELBRACHT, PH.D.
FRANK GRANT LEWIS, A.M.
FREDERIC OWEN NORTON, PH.D.
CALVIN KLOPP STAUDT, A.B.

INTRODUCTORY

LINES OF STUDY

The Department known in the Divinity School as the Department of New Testament Literature and Interpretation (XLII) is designated in the Graduate School and the Senior Colleges as that of Biblical and Patristic Greek (IX). The two titles emphasize different aspects of the work of the one Department. The aim of this Department is to provide instruction in the following lines of investigation:

1. The Greek of the New Testament, and of other Greek literature closely related linguistically to the New Testament, for students who already have a knowledge of classical Greek. In this division of the work opportunity is provided for the translation and grammatical study of the New Testament, of the Septuagint and other Greek versions of the Old Testament, of Jewish Greek Literature nearly contemporaneous with the New Testament writings, and of early Christian Greek literature. The special aim in this portion of the work is primarily, to give to all students the necessary linguistic foundation for the interpretation of the New Testament, and, secondarily, to afford to those who desire it an opportunity to form a broad basis for advanced original work in the various departments of New Testament study.

2. The documents of the New Testament text, and the theory and praxis of textual criticism as applied to them.

3. Historical Introduction to the study of the New Testament, including:

a) The History of New Testament Times in Palestine.

b) The History of New Testament Times in the Græco-Roman World. Both these lines of study are pursued with special reference to the acquisition of the method of historical investigation, and of the necessary historical basis for the interpretation of the New Testament.

c) The History of the Apostolic Age of the Church, especially the Life of the Apostle Paul, as a preparation for the study of the books which arose in this period.

d) Special Introductions to the several New Testament Books, in which the authorship, date, purpose, and plan of these books are discussed. These are taken up in connection with the preceding line of study, *c*), and with the following, 4*b*), but also in a summary way in a special course.

4. The Interpretation of the New Testament, including:

a) Principles of interpretation, especially as applied to the New Testament. Instruction in these principles is given only in connection with the actual work of interpretation on the part of the student, and is practical rather than theoretical.

b) Interpretation of the various New Testament books in accordance wiih the principles referred to above. The object kept in view is to furnish a basis for the study of the life of Jesus, and for the work of the Department of Biblical Theology.

5. The Life of Jesus Christ. It will be the endeavor of the instructors to make all the previously mentioned lines of study, especially as applied to the gospels, contribute to the attainment and presentation of a true conception of the life and teaching of Jesus.

6. The History of the New Testament, including (*a*) the history of manuscripts and versions; (*b*) the history of the canon; (*c*) the history of interpretation; (*d*) the history of criticism.

GENERAL AIM

The work of the Department is planned with reference to the needs of three classes of students:

1. Those who are preparing for the Christian ministry and expecting to be pastors.

2. Those who are preparing to be teachers of the Bible or of the biblical languages, or instructors in other departments of theological study.

3. Those who seek a knowledge of the Bible as a part of a liberal education, or as preparation for general Christian service.

It is recognized that the great majority of those whom the Department serves will be of the first of these classes, and special reference is therefore had to their needs. Yet it is believed that there ought to be, and it is hoped that there will be, an increasing number of students of both the other classes, and the effort has been made to provide courses of instruction adapted to them.

With a view to meeting the varied needs of these several classes, the relative emphasis on the impartation of the results of the instructor's investigation, the acquisition of information derived from other sources and training of the student to investigate for himself, varies in different courses. But the courses as a whole are planned with a view to developing the student's own powers of investigation, and in most of them this is the result *directly* aimed at.

ARRANGEMENT OF WORK

I. THE PRELIMINARY COURSES

In order to accomplish thorough and independent work in the study of the New Testament, it is necessary that the student should acquire at the outset a knowledge of the history of New Testament times, of the Greek language as used by New Testament writers, of the general character and content of the New Testament books, and of the fundamental principles of interpretation. With a view to the acquisition of this fundamentally necessary knowledge, all students who are candidates for a degree in the Graduate Divinity School are required to take Courses 1, 2, and 3 in the first four quarters of their course, and are strongly advised to elect Course 25, 28, or 33 in the second year. Students in the Graduate School who make the New Testament or Biblical Greek one of the subjects presented for a degree must also take these four courses.

II. SECONDARY WORK IN THE NEW TESTAMENT FOR THE DOCTOR'S DEGREE

Students who make New Testament Interpretation and Theology their secondary subject for the Doctor's degree must complete work equivalent to not less than nine majors, including the four majors named above. The additional courses must be selected with reference to their relation to the student's principal subject, and must be approved by the Head of the New Testament Department. Such students must be familiar with the grammar and vocabulary of the Greek New Testament, and must be able to read any portion of it. Students who take the Old Testament as their principal subject and the New Testament for their secondary subject are recommended to include Courses 40, 44, and 61 in their selection.

III. SECONDARY WORK IN BIBLICAL GREEK

Students who make Biblical Greek their secondary subject for the Doctor's degree are required to complete work in that subject equivalent in the aggregate to not less than nine majors, including the four majors named above. The courses must be systematically arranged and must be approved by the Head of the Department. The student must be able to read the Septuagint version of the historical books of the Old Testament, any portion of the New Testament, and the Apostolic Fathers.

IV. PRINCIPAL WORK IN THE NEW TESTAMENT

Students who make New Testament Interpretation and Theology their principal subject for the Doctor's degree must acquire a reasonably thorough knowledge of the entire field covered by the Department, including all of the six lines of study indicated above, and must become specially proficient in some one of these lines. They will also be required to have a good knowledge of Hebrew, and of Aramaic, and to have done systematic work in Old Testament History and Interpretation, especially in the History of Prophecy. The preliminary courses in Hebrew (three majors), together with a course in Aramaic and three courses in the History and Interpretation of the Old Testament, will furnish the minimum preparation necessary. These courses are required by the New Testament Department, whether the Old Testament be taken as the secondary subject or not. The total amount of work required for the degree cannot be stated in majors and minors. The degree is granted only to those who give evidence of high attainments in the Department and of ability to be independent investigators.

V. PRINCIPAL WORK IN BIBLICAL GREEK

Students who make Biblical and Patristic Greek their principal subject for the Doctor's degree must be proficient in Jewish and Roman History from 175 B. C. to 135 A. D., and must have a good acquaintance with the Jewish and Christian literature of this period, and a thorough knowledge of the Greek of the Septuagint, the New Testament, and the Apostolic Fathers. They must be proficient in classical Greek, and have at least an elementary knowledge of Comparative Indo-European Grammar. They must also have such knowledge of Hebrew as can be acquired by the three preliminary Majors in the Old Testament Department together with the course in Hebrew Syntax. A knowledge of Aramaic is also required.

VI. WORK LEADING TO THE MASTER'S DEGREE

The requirements for a Master's degree, when the New Testament is the principal subject, are the same as for the Doctor's degree when the New Testament is the secondary subject. When the secondary work for a Master's degree in the Divinity School is done in this Department, a total of not less than six majors, including the four majors named in I above, and approved by the Head of the Department, will be required. Every student recommended by this Department for a degree must also be proficient in classical Greek and well acquainted with the Greek of the New Testament. For the requirements for the Master's degree in Biblical Greek see p. 11.

VII. THE NEW TESTAMENT CLUB

The New Testament Club holds fortnightly meetings for the review of current literature and the presentation of papers on subjects connected with New Testament study.

LIBRARY FACILITIES

Including works in their own departmental library, in other departmental libraries accessible to students and instructors, and in the General Library of the University, the New Testament Department possesses a very large and valuable library outfit. Many of the most valuable older works are contained in the Hengstenberg and Bible Union collections, which were acquired entire by the Baptist Union Theological Seminary and brought by that school to the University when the two institutions were united, and a very good collection of more recent works has been purchased within the last nine years. This collection is being constantly increased by careful purchase. The leading German, English, and American journals devoted to biblical criticism and interpretation are also accessible to the student.

COURSES OF INSTRUCTION

1. Introduction to the Study of New Testament Greek. — Characteristics of the Greek of the New Testament, with special attention to syntax; brief survey of facts and principles of textual criticism, translation of the gospel of Mark; exercises in interpretation; elementary principles of interpretation. *A required course.*

Mj. Summer Quarter, 1907
Mj. Winter Quarter, 1908
ASSISTANT PROFESSOR GOODSPEED

2. **Introduction to New Testament History.** — Geography of Palestine; political history of the Jewish people from 175 B. C. to 70 A. D.; rise of the Pharisees, Sadducees, Zealots, and the Sanhedrin; religious institutions of the Jews—the temple, the synagogue, scribism; the setting and chief events of the life of Christ. *A required course.*

Mj. Winter Quarter, 1907
PROFESSOR MATHEWS
Mj. Autumn Quarter, 1907
ASSISTANT PROFESSOR VOTAW

3. **Introduction to the Books of the New Testament.** — General survey of the field of New Testament study; examination of the books of the New Testament with reference to their occasion, purpose, and content, covering (*a*) the epistles of Paul in relation to his life and thought, (*b*) the gospels and Acts, (*c*) the general epistles and Revelation; assigned reading in the history of the apostolic age. *A required course.*

Mj. Spring Quarters, 1907, 1908
PROFESSOR BURTON

4. **Rapid Translation and Interpretation** of portions of the Greek text of the New Testament.

M. First Term, Summer Quarter, 1907
ASSISTANT PROFESSOR GOODSPEED

5. **New Testament Syntax.** — Inductive study of special problems of the syntax of New Testament Greek.

PROFESSOR BURTON

8. **Textual Criticism of the New Testament.**—Material and principles of criticism, with practical exercises from *fac similes* and digests of readings.

Mj. Winter Quarters, 1907, 1909
ASSISTANT PROFESSOR GOODSPEED

11. **History of New Testament Times in the Græco-Roman World.** Mj. Autumn Quarter, 1907
ASSISTANT PROFESSOR GOODSPEED

13. **History of the Apostolic Age of the Christian Church.** Mj. Spring Quarter, 1907
ASSISTANT PROFESSOR VOTAW

16. **Introduction to the Synoptic Gospels.**—Detailed examination of the resemblances and differences of the first three gospels as bearing upon the question of the sources and authorship of each.

Mj. Winter Quarter, 1907
Mj. Spring Quarter, 1908
ASSISTANT PROFESSOR GOODSPEED

17. **Introduction to the Gospel of John.**—Internal and external evidence bearing upon the origin of the Fourth Gospel. A Seminar.

Mj. Autumn Quarter, 1909
PROFESSOR BURTON

19. **The Life of Christ.**—Historical study on the basis of the gospel records.

Mj. Spring Quarter, 1907
DR. SHARMAN
Mj. Autumn Quarter, 1907
ASSISTANT PROFESSOR GOODSPEED
In the Autumn Quarter for the Colleges only.

20. **The Parables of Jesus.**—Their characteristics; principles of interpretation; interpretation of a limited number.

M. Second Term, Summer Quarter, 1907
ASSISTANT PROFESSOR VOTAW

21. **The Miracles of the New Testament.**—Historical, philosophical, and psychological study of the New Testament miracles, with regard to their occurrence, interpretation, characteristics, purpose, and present day significance.

ASSISTANT PROFESSOR VOTAW

24. **Life of the Apostle Paul, and Introduction to the Pauline Epistles.**

25. **The Gospel of Matthew.**—Study of the book with reference to authorship, structure, and specific purpose; translation of Greek text; inductive study of leading words; interpretation of chaps. 3–7; lectures on interpretation.

Mj. Autumn Quarter, 1908
PROFESSOR BURTON
Prerequisite: *The required courses.*

NOTE.—Course 25 is given each third year, rotating with 28 and 33. All candidates for a degree are advised to elect one of these three courses.

26. **Jesus' Sermon on the Mount.** A study of the historical features of the discourse as recorded in Matt., chaps. 5–7, and Luke 6:20–49; the theme of the sermon and its development; the interpretation of the teaching of Jesus herein contained, with special reference to present-day religious and ethical thought.

M. Second Term, Summer Quarter, 1908
ASSISTANT PROFESSOR VOTAW

27. **The Gospel of Luke.**—Study of the Greek text, with special attention to its use by preachers as a basis for Christian teaching. Mj

28. **The Gospel of John.**—Study of the book with reference to authorship, structure, and purpose; translation of the Greek text; study of the lead-

ing terms of the gospel, intended to lay the foundation of an inductive study of Johannine theology; interpretation of chaps. 1–3; lectures on interpretation. (See note under 25.)

Mj. Autumn Quarter, 1909
PROFESSOR BURTON

Prerequisite: *The required courses.*

29. **The Book of Acts.**—Introduction; study of the Greek text from a linguistic and historical point of view. Mj

30. **The Epistles to the Thessalonians.**—Introduction; analysis of the letters; translation of Greek text; interpretation of selected passages.

M. First Term, Summer Quarter, 1908
ASSISTANT PROFESSOR GOODSPEED

31. **The Epistle to the Galatians.**—Introduction; analysis of the letter; translation of the Greek text; interpretation of selected passages.

Mj. Summer Quarter, 1907
PROFESSOR BURTON

32. **The Epistles to the Corinthians.**—Historical situation; analysis of the letters; translation and interpretation of the Greek text; contribution of the epistles to our knowledge of primitive Christianity, and their practical value for the Christianity of today. Mj

ASSISTANT PROFESSOR VOTAW

33. **The Epistle to the Romans.**—Introduction; analysis of argument; translation of Greek text; study of the leading terms of the epistle, intended to lay the foundation of an inductive study of the Pauline theology; interpretation of chaps. 1–8; lectures on interpretation. (See note under 25.)

Mj. Autumn Quarter, 1907
PROFESSOR BURTON

Prerequisite: *The required courses.*

34. **The Epistles to the Colossians and the Ephesians.**—See 31. Mj. Spring Quarter, 1907
DR. SHARMAN

35. **The Epistle to the Philippians.**—See 31.

PROFESSOR BURTON

36. **Exegetical Study of Selected Texts in the General Epistles.**—Practice in applying the principles of interpretation to New Testament texts as a groundwork for homiletics, involving interpretation of the Greek text from the historical point of view and formulation of themes for preaching.

Mj. Winter Quarter, 1907
ASSISTANT PROFESSOR VOTAW

37. **The Epistle to the Hebrews.**—Introduction; history of opinion concerning the authorship of the letter; analysis of argument; reading of Greek text; the interpretation of selected passages.

Mj. Spring Quarter, 1908
ASSISTANT PROFESSOR GOODSPEED

Prerequisite: *The required courses.*

37A. **The Epistle to the Hebrews.**—Introduction; analysis of argument; interpretation of selected passages on the basis of the English version.

M. First Term, Summer Quarter, 1907
ASSISTANT PROFESSOR GOODSPEED

38. **The Epistles of John.**—Introduction; translation and interpretation of the Greek text. M

ASSISTANT PROFESSOR GOODSPEED

39. **The Book of Revelation.**—Introduction to the Christian use of apocalyptic; history of the modern criticism of the Book of Revelation; interpretation of the Greek text.

Mj. Winter Quarter, 1909
ASSISTANT PROFESSOR VOTAW

40. **New Testament Quotations from the Old Testament.**—Part I. Interpretation of quotations in the synoptic gospels on the basis of the Hebrew Old Testament, the Septuagint translation, and the Greek New Testament.

Mj. Autumn Quarter, 1908
PROFESSOR BURTON

Prerequisite: *Course 1, and a knowledge of Hebrew.*

41. **New Testament Quotations from the Old Testament.**—Part II. Quotations in Acts and the epistles. (See under Course 40.) M

PROFESSOR BURTON

Prerequisite: *Course 1, and a knowledge of Hebrew.*

44. **Rapid Reading in the Septuagint.**—Translation of portions of the Greek Old Testament; study of the characteristics of Septuagint Greek, and its relation to the Greek of the New Testament, the origin and history of the Septuagint, and other Greek versions of the Old Testament.

Mj. Spring Quarter, 1907
ASSISTANT PROFESSOR VOTAW

46. **Jewish Literature of New Testament Times.** A study of the Jewish writings, historical, psalmodic, philosophical, and apocalyptic, of the years 175 B. C. to 135 A. D.

Mj. Autumn Quarter, 1907
ASSISTANT PROFESSOR VOTAW

48. **The Writings of Philo.**—Biographical introduction; reading of selected portions of his works; discussion of his mode of interpretation, and of his philosophical ideas. M
ASSISTANT PROFESSOR VOTAW

49. **The Writings of Josephus.**—Biographical introduction. Translation of the work against Apion, and portions of War of the Jews and the Antiquities. M
ASSISTANT PROFESSOR VOTAW

53. **The Apostolic Fathers.**—Brief introductions; translation of the Greek text; lectures and essays on the theology of the several writers.
Mj. Autumn Quarter, 1907
ASSISTANT PROFESSOR GOODSPEED

54. **Reading in Christian Literature Bearing on the History of New Testament Books.**
M
ASSISTANT PROFESSOR GOODSPEED

55. **Christian Literature to Eusebius.**—History of Ante-Nicene Christian Literature, with reading of assigned portions, partly in original, partly in translation. Mj. Autumn Quarter, 1908
ASSISTANT PROFESSOR GOODSPEED

57. **The Formation of the New Testament Canon** and its history in the Ante-Nicene Period.
Mj. Winter Quarter, 1908
ASSISTANT PROFESSOR GOODSPEED

59. **The History of the Interpretation and Criticism of the New Testament.**
Mj. Winter Quarter, 1908
ASSISTANT PROFESSOR VOTAW

60. **Theology of the New Testament.**—The principal teachings of Jesus, and of the leading New Testament writers. An outline course from the historical point of view. Mj
PROFESSOR BURTON

61. **Theology of the Synoptic Gospels.**—An inductive study of the teachings (*a*) of John the Baptist, (*b*) of Jesus, (*c*) of the several evangelists. A Seminar. Mj. Spring Quarter, 1909
PROFESSOR BURTON
Prerequisite: *The required courses, and 25 (or 27).*

NOTE.—Course 61 is given each third year in rotation with Courses 62 and 66, each course following an exegetical course preparatory to it in the Autumn Quarter.

62. **Theology of the Gospel and First Epistle of John.** An inductive study of the teachings (*a*) of John the Baptist, (*b*) of Jesus, as these appear in the fourth gospel, and (*c*) of the evangelist. A Seminar. Mj. Spring Quarter, 1907
PROFESSOR BURTON
Prerequisite: *The required courses, and 28.*

63. **The Teaching of Jesus.**— Characteristics of the records of the teaching, arrangement of the material under specific topics with reference to their organic relation, and an interpretative study of the teaching.
Mj. Winter Quarter, 1908
ASSISTANT PROFESSOR VOTAW

Open to members of the Graduate Schools and of the Senior Colleges.

63A. **The Ethical Teachings of Jesus,** in relation to the ethics of the Old Testament and of the Pharisees. ¼ or ½ Mj
Sunday, 8:30, Autumn Quarter, 1906
PROFESSOR MATHEWS

63B. **The Social Teaching of Jesus.** ¼ or ½ Mj
Sunday, 8:30, Winter Quarter, 1907
PROFESSOR MATHEWS

63C. **The Religious Teachings of Jesus** on the basis of the gospel records. ¼ or ½ Mj
Sunday, 8:30, Spring Quarter, 1907
PROFESSOR MATHEWS

66. **Theology of the Second Group of the Epistles of Paul.**—An inductive study of the teachings of the apostle in his letters to the Galatians, Corinthians, and Romans. A Seminar.
Mj. Spring Quarter, 1908
PROFESSOR BURTON
Prerequisite: *The required courses, and 31, 32, 33, or 36.*

68. **The Ethical Teachings of the New Testament.**

69. **The Doctrine of Atonement in the New Testament.**—The doctrine of the basis of forgiveness and justification in the several writers and groups of books in the New Testament.
Mj. Summer Quarter, 1907
PROFESSOR BURTON

70. **The Eschatology of the New Testament.**—Jewish ideas of the Kindgom of God, the Messiah, the resurrection, and the Day of Judgment; the teaching of Jesus, Peter, Paul, and John upon these themes, and concerning the second coming of Christ; relation between the Jewish and Christian eschatology. M. (Eschatology of Jesus.) Second Term, Summer Quarter, 1907
ASSISTANT PROFESSOR VOTAW

72. **Lexicographical Seminar,** for the historical study of important New Testament words.
Mj. Autumn Quarter, 1907
PROFESSOR BURTON

Prerequisite: *One or more exegetical courses in the New Testament.*

73. **New Testament Psychology.**—An inductive study of Hebrew and first-century Jewish terms and ideas concerning the constitution and the operation of the human mind, in comparison with modern psychology, and a consideration of the psychological problems involved in the interpretation of New Testament thought to twentieth-century men. Summer Quarter, 1908
ASSISTANT PROFESSOR VOTAW

75. **Research Work.**—Investigation in the field of lexicography, history, exegesis, and biblical theology. Every Quarter. PROFESSOR BURTON

X. THE DEPARTMENT OF SANSKRIT AND INDO-EUROPEAN COMPARATIVE PHILOLOGY

OFFICERS OF INSTRUCTION

CARL DARLING BUCK, PH.D., *Professor and Head of the Department of Sanskrit and Indo-European Comparative Philology.*

———————————— *Instructor in Sanskrit and Indo-European Comparative Philology.*

SAMUEL NORTHRUP HARPER, A.B., *Associate in the Russian Language and Literature.*

FELLOW, 1906–7

GHEN-ICHIRO YOSHIOKA, PH.B.

INTRODUCTORY

The aim of the Department will be:

1. To furnish the requisite training for those intending to make Indo-European Philology their chief work. Instruction will be given in the most important branches of the family by means of courses which combine a practical introduction to the respective languages with lectures and exercises on their comparative grammar. Such courses are offered by this Department in Sanskrit, Avestan, Old Persian, Lithuanian, and Old Bulgarian, and by the English and German Departments in Old English, Gothic, and Old High German. In Greek and Latin, of which a practical knowledge is presupposed, the work will be entirely grammatical, consisting of lectures and exercises on the comparative grammar of Greek and Latin, and the Greek and Italic dialects. For work in the comparative syntax of Greek and Latin the programme of the Latin Department is to be consulted.

2. To provide for a systematic course of study in Indic Philology. The courses offered are designed to provide for the needs alike of students who turn to Sanskrit for the better understanding of Indo-European language and civilization and of those who are interested especially in the contributions of India to religious and philosophical thought. Provision is made for a consecutive course of study extending over three years.

3. To act as an auxiliary to the Greek and Latin Departments by furnishing instruction in the comparative grammar of the classical languages and in the Greek and Italic dialects. Courses 1 and 2 will also be adapted to students in the German and English Departments who are engaged chiefly in linguistic work.

4. To provide a brief introductory course, such as will be of value to the general student.

The work of the Summer Quarter is intended to meet the wants of teachers of Greek and Latin who desire an insight into the methods of comparative grammar and an elementary knowledge of Sanskrit.

COURSES OF INSTRUCTION

*1. **General Introduction to the Study of Indo-European Philology.**—Brief history of the science. General principles of linguistic development; nature of changes in form and meaning; uniformity of the phonetic processes; analogy; relation of spelling to speech; language and dialect; rise of a standard language; language mixture. The grouping of the Indo-European languages; the ethnological relations and earliest history of each branch; its most important lin-

* Courses 1–7, 10–12, 21–24, and 30–32 are Senior College and Graduate courses; all others are Graduate only. Courses 21–24 are also open to students of the Junior Colleges upon consultation with the instructor.

guistic remains; the leading works of reference in each field. Indo-European antiquities ("linguistic paleontology"). No textbook is used, but a considerable range of reading is assigned in connection with the lectures.

M. First Term, Summer Quarter; 11:30
PROFESSOR BUCK

2. **Outlines of the Comparative Grammar of Greek and Latin (Sounds and Inflections.)**—This course, which is intended primarily for classical students, though also adapted to the needs of students of Germanic or Romance Philology, is meant to be eminently practical, emphasizing those relations which can be understood from a study of the Greek and Latin languages themselves, and the facts which are most helpful to an understanding of the historical development in each language.

Mj. Autumn Quarter; 11:00
PROFESSOR BUCK

3. **Exercises in Greek and Latin Historical Grammar Based on the Study of Selected Inscriptions.**—The time is equally divided between Greek and Latin, and either half may be taken separately as a Minor. Mj. Winter Quarter; 11:00
PROFESSOR BUCK

4. **Historical Latin Grammar.**—Lectures and exercises upon the history of Latin sounds and inflections.

M. First Term, Summer Quarter; 10:30
PROFESSOR BUCK

6. **Italic Dialects.**—Buck's *Grammar of Oscan and Umbrian* will be used.

Mj. Spring Quarter; 11:00
PROFESSOR BUCK

7. **Greek Dialects.**—Solmsen's *Inscriptiones Graecae ad inlustrandas dialectos selectae* will be used.

PROFESSOR BUCK
[Not to be given in 1907–8]

10. **Sanskrit.**— Elementary Course. Whitney's *Sanskrit Grammar* and Lanman's *Sanskrit Reader* are used. The reading is begun after about six lessons on the more important paradigms. In connection with the reading, the system of sounds and inflections is studied more carefully and in the light of comparative grammar.

Mj. Autumn Quarter; 12:00
PROFESSOR BUCK

11. **Sanskrit.**—Reading of classical texts from Lanman's *Reader* and exercises in Sanskrit composition. Mj. Winter Quarter; 2:00

12. **Introduction to Vedic Study.**—Lanman's *Reader* and Hillebrandt's *Vedachrestomathie* will be used. Mj. Spring Quarter; 2:00

13. **Kālidāsa's** *Çakuntalā*, or *Vikramorvaçī*, with an introduction to scenic Prākrit.

Mj. Winter Quarter; 3:00

14. **Kālidāsa's** *Meghadūta* and *Ṛtusamhāra*.

[Not to be given in 1907–8]

17. **Pāli.**—For beginners. Reading of Ellwell's *Nine Jātakas*, followed by the *Dhammapada*. Prerequisite: *Sanskrit*.

[Not to be given in 1907–8]

19. **Avestan** (and **Old Persian**).—Introduction to Iranian Philology. Jackson's *Avesta Grammar* and *Avesta Reader* will be used. After completing the selections in the Reader, either additional texts from the Avesta (Geldner's edition) or the Old Persian inscriptions will be taken up. Prerequisite: *Sanskrit*.

Spring Quarter; 12:00
PROFESSOR BUCK

20. **Lithuanian and Old Bulgarian.**—Introduction to Balto-Slavic Philology. Wiedemann's *Handbuch der litauischen Sprache* and Leskien's *Handbuch der altbulgarischen Sprache* will be used. PROFESSOR BUCK
[Not to be given in 1907–8]

21, 22. **Elementary Russian.**—Reiff's *Russian Grammar*, and the *Russian Reader* of Boyer and Speranski will be used.

2Mj. Autumn and Winter Quarters; 9:30
MR. HARPER

23, 24. **Advanced Russian.**—Composition and extension reading of Russian authors. Texts: Selections from Tolstoy, Turgeniev, Gogol, and Chehov.

2Mj. Autumn and Winter Quarters; 11:00
MR. HARPER

25. **Seminar.**—Problems in Indo-European Phonology and Morphology. Written papers will be expected each week.

Mj. Winter Quarter; Fri., 4:00–6:00
PROFESSOR BUCK

26. **Vedic Seminar.**—Interpretation of Selected Hymns from the Rig-Veda.

Mj. Spring Quarter; Wed., 4:00–6:00

Attention is called to the following related courses offered in other Departments:

XII, 84. **The Comparative Syntax of Latin and Greek.** 3 Mj. Autumn, Winter, and Spring Quarters Th., 4:00–6:00 PROFESSOR HALE

XIV, 103. **Gothic.** Mj. Summer Quarter; 1:30 Mj. Autumn Quarter; 2:00 ASSISTANT PROFESSOR WOOD

XIV, 251. **Seminar: Problems in Germanic Philology.** Mj. Winter Quarter; 3:00 ASSISTANT PROFESSOR WOOD

XV, 31. **Introduction to the Science of Language.** Mj. Spring Quarter; 3:00 PROFESSOR MANLY

XV, 21. **Old English.** (Elementary Course.) Mj. Summer Quarter; 8:00 Autumn Quarter; 2:00 MR. ROYSTER

XI. THE DEPARTMENT OF THE GREEK LANGUAGE AND LITERATURE

OFFICERS OF INSTRUCTION

PAUL SHOREY, PH.D., LL.D., *Professor and Head of the Department of the Greek Language and Literature.*
EDWARD CAPPS, PH.D., *Professor of Greek.*
CLARENCE FASSETT CASTLE, PH.D., *Associate Professor of Greek.*
ROBERT JOHNSON BONNER, PH.D., *Instructor in Greek.*
DAVID ANDERSON COVINGTON, A.M., *Assistant in Greek.*

FELLOWS, 1906–7.

JOHN LEONARD HANCOCK, A.B. ROGER MILLER JONES, A.B.
MARY EDITH McGREW, A.M.

INTRODUCTORY

Ability to read Greek with accuracy and ease, and intelligent enjoyment of the masterpieces of Greek literature are the indispensable prerequisites of all higher Greek scholarship. All other interests that may attach to the study are subordinate to these, and their pursuit is positively harmful if it prematurely distracts the student's attention from his main purpose.

In the work of the Junior Colleges the Department will keep this principle steadily in view, and will endeavor to teach a practical knowledge of Greek vocabulary and idiom, and to impart literary and historic culture by means of rapid *viva voce* translation and interpretation of the simpler masterpieces of the literature. The authors especially studied will be Homer, Xenophon's *Memorabilia* and *Hellenica*, with two or three of the minor Platonic dialogues, a few of the easier Greek orations, selections from Herodotus and Thucydides, and several Greek plays. In the Senior Colleges the chief stress will still be laid on reading and exegesis, but the range of authors presented to students' choice will be enlarged to include Pindar and Bacchylides, further study of the drama, Theocritus and the Greek lyric poets, the Attic orators, Thucydides, Aristotle, and Plato. Special courses will also be given on archæology, epigraphy, private and public antiquities, and literary history.

The ultimate aim of the graduate work is to train finished scholars, teachers, and investigators. Great pains will be taken, however, to avoid the too common error of hurrying into investigation students who lack the indispensable preliminary knowledge of the Greek language and literature. The Department will make a distinct effort to provide for the needs of students of this type. The opportunities of the Senior Colleges will be open to them, and suitable graduate courses are provided for them; they will also be admitted to the seminar as listeners and, to the extent of their ability, as active participants, on condition that they at the same time pursue special auxiliary courses of reading organized for them in connection with the seminar.

Candidates for the Doctor's degree in Greek (and where Greek is the major subject Latin must be offered as the minor) will be expected to show, in addition to an intimate knowledge of the principles of the two languages and facility in using them, a familiarity with Greek and Roman history, the history of Greek and Latin literature, and a special knowledge of a chosen author or authors in each language. When Greek is taken as the major subject, special stress will be laid on range and accuracy of reading, and on the quality of the dissertation, which must be printed.

For information in regard to Scholarships, Fellowships, and library facilities, see pp. 13, 14.

COURSES OF INSTRUCTION

Senior College and Graduate Courses

16. **Greek Composition.**—The course is intended primarily for those who intend to teach. Mj
Dr. Bonner
[Not to be given in 1907–8]

17. **The History of Greece to the Death of Alexander.**—An outline study of the political and social life of the Grecian people. Lantern slides and other methods of illustration will be employed. Mj. Autumn Quarter; 9:30
Dr. Bonner

18. **Thucydides.**
M. First Term, Summer Quarter; 2:30
Professor Shorey

18B. **Plato: Minor Dialogues.**
M. Second Term, Summer Quarter; 2:30
Professor Burgess

19. **Research Course in Greek History.**—The History of the period from 413–403 B.C. will be studied from the sources, attention being directed chiefly to the course of Athenian politics. Considerable portions of the principal sources will be read and discussed in class. Special topics for papers and reports will be assigned from time to time. Mj. Winter Quarter; 9:30
Dr. Bonner

23. **Aristophanes.**—Study of one play. Rapid reading of four or five plays.
Mj. Winter Quarter; 8:30
Professor Shorey

24. **Aristotle: "Politics."**—An introduction to the political and economic writings of Aristotle, and to the study of the social and political institutions of Greece. The text will be interpreted mainly by the instructor and topics will be assigned for reports. Mj
Professor Capps
[Not to be given in 1907–8]

25. **Aristotle: "Constitution of Athens."**—Studies in Athenian Constitutional History and Political Institutions based primarily upon this text, with extensive collateral readings in the other sources. Reports on assigned topics will be expected of members of the class, who will also be encouraged to undertake original studies in this field. Mj
Professor Capps
[Not to be given in 1907–8]

27. **Pindar and Bacchylides.**
Mj. Spring Quarter; 8:30
Professor Shorey

28. **Æschylus.**
M. First Term, Summer Quarter; 9:00
Professor Shorey

28A. **Euripides.**
M. Second Term, Summer Quarter; 9:00
Professor Burgess

29. **Plato: The Republic.**
Mj. Autumn and Winter Quarters
Professor Shorey
See note on Graduate Courses 63, 64, 65.

30. **The Lyric Poets.**—Fragments of the early elegiac and melic poets will be read, with lectures on the history of lyric poetry in Greece. Questions of meter and dialect will receive appropriate treatment. Mj
Professor Capps
[Not to be given in 1907–8]

31. **Theocritus, Bion, and Moschus.**—All of the Idyls of Theocritus, the Epitaphius of Bion, and some of the poems attributed to Moschus will be interpreted, together with typical mimes of Herondas. Summer Quarter; 11:00
Professor Capps

32. **Hesiod and the Homeric Hymns.**—Reading and interpretation as related to Mycenæan civilization, to the Homeric poems, life, and thought, and to other early literature and pastoral life.
Associate Professor Castle
[Not to be given in 1907–8]

33. **Sophocles.**—Study of one play. Rapid reading of four or five plays.
Mj. Autumn Quarter; 8:30
Professor Shorey

34. **Euripides.**—The reading of selected plays as literature. By means of lectures and papers a comprehensive view of all of the poet's extant plays will be presented. Open to Senior College students and Graduates.
Mj. Spring Quarter; 9:30
Associate Professor Castle

36. **Demosthenes.**—The translation of selected orations, accompanied by lectures and readings, to show the author's power as an orator, and the scope of his works. Open to Senior College students and Graduates.
Mj. Autumn Quarter; 9:30
Associate Professor Castle

38. **Homer and Homeric Age.**—Readings from the *Iliad* and *Odyssey*, with lectures, papers, and reports, designed to present a comprehensive view of the Homeric literature and age, and to show its relation to Mycenæan civilization and to later times. Open to Senior College students. Mj. ASSOCIATE PROFESSOR CASTLE
[Not to be given in 1907–8]

39. **Herodotus.**—The author will be studied not only as a literary artist, but also as a source of information concerning the civilization, culture, and ideas of the age to which he belonged, and further as a basis for the study of the methods of historical writers; of the aim and methods in historical research and instruction, to be illustrated and elucidated by other historians both ancient and modern. Teubner's text will be used. Open to Senior College students. Mj
ASSOCIATE PROFESSOR CASTLE
[Not to be given in 1907–8]

GRADUATE COURSES

40. **Greek Comedy: Aristophanes.**—The plays of Aristophanes will first be read. A detailed examination will be made of the structure and technique of these plays for the light they throw upon the beginnings of comedy. Mj
PROFESSOR CAPPS
[Not to be given in 1907–8]

45. **The Greek Theater.**—The general field of Greek Scenic Antiquities will be covered by lectures and reports; but attention will be directed particularly to unsolved problems in connection with the history and structure of the theater, the meaning of technical terms, scenic appliances, the dramatic contests, the choregia, the production of plays, actors and acting, and the like. The immediate and practical bearing of the subject upon the interpretation of the drama will be made prominent. Mj
PROFESSOR CAPPS
[Not to be given in 1907–8]

47. **Greek Inscriptions.**—An introduction to the study of the inscriptions mainly as important documents for the illustration of many phases of public and private life. Dittenberger's *Sylloge* will be used by the class, but with constant reference to the *Corpus* and the journals, with which the student is expected to become familiar.
Mj. Summer Quarter; 12:00
PROFESSOR CAPPS

50. **Greek Tragedy.**—The beginnings of Greek Tragedy and the course of its development will be treated in lectures, with consideration of the legendary material, the external conditions in which tragedy arose, the dramatic and scenic adjustment of its parts, the language of tragedy, and the history of our tragic texts. The course will involve the reading and analysis of several plays by each member, and a general survey of all the remains by the instructor.
PROFESSOR CAPPS
[Not to be given in 1907–8]

51. **Greek Tragedy.**—A continuation of Course 50.
[Not to be given in 1907–8]

54. **Lectures on the Literary Criticism and Rhetoric of the Ancients,** with modern illustrations and applications. Open to Senior College students.
PROFESSOR SHOREY
[Not to be given in 1907–8]

57, 58, 59. **The Attic Orators.**
PROFESSOR SHOREY
[Not to be given in 1907–8]

63, 64, 65. **Seminar: Plato.**
3Mj. Autumn, Winter, and Spring Quarters, Wed., 4:00–6:00
PROFESSOR SHOREY

NOTE.—A second optional meeting (Friday 4:00–6:00) will be held in the Autumn and Winter Quarters for the rapid reading of the *Republic*. Senior College students, after consultation with the instructor, may elect this work separately and receive credit for it.

66, 67, 68. **Seminar: Stoicism and Epicureanism in Ancient Literature and Life.**—The doctrine will first be studied in the extant fragments, and then its influence will be traced through Latin and later Greek literature. A second weekly meeting will be arranged for illustrative readings from Lucretius, Cicero, Seneca, Horace, Persius, Juvenal, Plutarch, Lucian, Epictetus, and Marcus Aurelius.
3Mj. Autumn, Winter, and Spring Quarters
PROFESSOR SHOREY
[Not to be given in 1907–8]

Attention is also called to the following courses in the Department of the History of Art.

2. **Greek Art.**
Mj. Autumn Quarter; 8:30
PROFESSOR TARBELL

4. **Ancient Athens, Olympia, and Delphi.**
Mj. Autumn Quarter; 9:30
PROFESSOR TARBELL

XII. THE DEPARTMENT OF THE LATIN LANGUAGE AND LITERATURE

OFFICERS OF INSTRUCTION

WILLIAM GARDNER HALE, A.B., LL.D., *Professor and Head of the Department of Latin.*
CHARLES CHANDLER, A.M., *Professor of Latin.*
FRANK FROST ABBOTT, Ph.D., *Professor of Latin.*
GEORGE LINCOLN HENDRICKSON, A.B., L.H.D., *Professor of Latin.*
FRANK JUSTUS MILLER, Ph.D., *Associate Professor of Latin.*
GORDON JENNINGS LAING, Ph.D., *Associate Professor of Latin.*
EDWARD AMBROSE BECHTEL, Ph.D., *Instructor in Latin.*
SUSAN HELEN BALLOU, Ph.B., *Instructor in Latin.*

ROBERT JOHNSON BONNER, Ph.D., *Instructor in Greek and in Ancient History.*

FELLOWS, 1906-7

LILLIAN GAY BERRY, A.B.
EMILY HELEN DUTTON, A.B., A.M.
EVAN TAYLOR SAGE, A.B.
DRAPER TOLMAN SCHOONOVER, A.B.
BERTHOLD LOUIS ULLMAN, A.B.

INTRODUCTORY

The aims of the Department of Latin are as follows:

1. To develop the power of rapid and intelligent reading, in the Roman order, and without translating.

In connection with this aim, but also for its independent value as a means of educating the higher literary taste, provision is made for practice in the writing of Latin: first, in connection with the work of the Junior Colleges, and, later, in Senior College courses.

2. To offer a wide range of reading in the important authors.

3. To provide for the systematic study of the life of the people in its various aspects — political, legal, social, religious, etc.—through special courses in Roman History, Roman Politics, Roman Private Life, Roman Religion, Roman Philosophy, and Roman Oratory. In addition, a course in Greek and Roman Art has been provided by the Department of the History of Art, and a course in Roman Law by the Department of Political Science.

4. To offer to students whose tastes lead in the direction of the historical side of the literature opportunities for the study of selected portions of Roman History from the sources.

5. To offer advanced courses — partly by lectures, partly by practical exercises, and partly by work in the seminars — in the study of the earliest existing remains of the language; in the interpretation of inscriptions; in the reading of facsimiles of manuscripts, and the treatment of problems of textual criticism; in the critical study of selected portions of some author; and in the comparative study of Greek and Latin syntax and the investigation of unsettled problems in this field. Provision is also made by the Department of Comparative Philology for courses in the Italic dialects, and in Latin grammar on the side of sounds and inflections.

6. To offer special opportunities for training to students who take up the teaching of Latin as a profession. These opportunities are increased by the resources presented by the School of Education.

Three kinds of courses are arranged: I. Courses in the study of the teaching of particular years, or parts of years, of the high-school course, with participation in this teaching, under the eyes of the instructor. These courses will be given in the building of the School of Education. (See Courses 40, 41.) II. More summarized courses in the individual authors taught in the high school. The work will be supplemented by visits to the corresponding classes in the School of Education (see Course 43). III. More general courses, one in matters necessarily underlying all teaching of Latin, such as pronunciation, syntax, word-order, and the application of the knowledge of these subjects in acquiring power to read (see Course 38), the other a broader course dealing with matters with which all teachers should have some degree of familiarity (see Course 39).

Most students who are beginning graduate work will find it advisable to take further reading courses before electing courses of a more technical character. The work of the seminars can be done with most profit by those who have already spent a year or more in graduate study at the University.

All graduate courses, and the Senior College courses in reasonable proportion, are accepted as work leading to a second degree.

Candidates for the degree of Ph.D. in Latin and Greek (when Latin is the principal subject Greek must be offered as a secondary subject) will be expected to show, in addition to an intimate knowledge of the principles of the two languages and facility in using them, a familiarity with Greek and Roman history and the history of Greek and Latin literature, and a special knowledge of a chosen author or authors in each language. The thesis offered in candidacy for the degree must be in a form suitable for printing before the student is admitted to examination, and must be in the hands of the classical Faculty two months before the date fixed for that examination. For other rules governing candidacy for a second degree see the *Annual Register* and the printed regulations posted in the Latin Office.

For information with reference to library facilities see p. 14 of this *Circular*.

COURSES OF INSTRUCTION

Senior College Courses

NOTE.—Before entering upon any Senior College course, students must have taken 4, 5, 6, and one other Junior College course. Before entering upon any Graduate course, students must have taken at least four Senior College courses. Courses 13-21, as here outlined, are thought of as electives preliminary to more advanced or technical work. Students expecting to specialize in Latin or candidates for honors in this subject are advised to select courses from this group immediately upon the completion of one Junior College elective.

12. **The History of Rome to the Death of Constantine.**—An outline study of the development of the political and social life of the Roman people. Lantern slides and other illustrative material will be used. Mj. Summer Quarter; 10:30
Dr. Bonner

13. **The Writing of Latin: Exercises in Latin Style.**—The method employed will be the combination of writing with the study of a model. Original compositions in English and English translations from Latin authors will be given to the students to translate into Latin in the classroom or at home.
Mj. Winter Quarter; 2:00
Associate Professor Laing

14. **Cicero: Letters.**—Enough of the correspondence bearing upon political matters will be read to present an outline of Cicero's public life and of his times; but attention will be given in particular to the letters on personal subjects, in the hope of throwing as much light as possible upon Cicero's private character, his tastes, his daily life, and his relations with his personal and literary friends. Mj. Autumn Quarter; 8:30
Professor Abbott

15. **Pliny the Younger: Letters.**—The principal object of this course and of Course 29, aside from the necessary study of the language, will be to present a picture of life and manners at Rome under the Early Empire. Professor Hale
[Not to be given in 1907–8]

16. **Lucretius.**—A study, chiefly literary, of the *De Rerum Natura*, and of the transmission and original form of the poem.
Mj. Autumn Quarter; 12:00
Professor Hendrickson

17. **Horace: Satires and Epistles.**—Attention will be especially directed upon the construction of these poems and upon Horace's philosophy of life. The members of the course will also be trained in reading hexameter verse.
Professor Hendrickson
[Not to be given in 1907–8]

18. **Tacitus.**—In this course selections from the *Annales* or *Historiae* will be read, with special regard to content and style. A study will be made of the political and social conditions of the times, and of the main characteristics of the author's style.
Associate Professor Laing
[Not to be given in 1907–8]

19. **Seneca: Selections from the Prose Writings.**—The selections will exhibit Seneca's philosophical and religious views, and the literary characteristics of the school of writing which he represents. Mj. Winter Quarter; 9:30
Professor Chandler

20. **Plautus.**—The course will deal, on the literary side, with plot, character-drawing, diction, and style; on the linguistic side, with vocabulary, metrical treatment, and ante-classical forms and constructions. It will thus form a suitable introduction to the study of Colloquial Latin, and to the historical and comparative study of Latin Syntax. Mj. Winter Quarter; 9:30
Professor Abbott

21. **Catullus.**—The principal work of this course will be an intensive study of the poems of Catullus, the greater part of whose writings will be read

in class. The reading will be supplemented by lectures on the development of lyric poetry.

Mj. Autumn Quarter; 2:00
ASSOCIATE PROFESSOR LAING

22. **Terence.** — At least four of the plays will be read, with special reference to their dramatic form, to the structure of the verse, and to scenic antiquities. Some attention will also be given to colloquial and archaic forms and constructions.

Mj. Summer Quarter; 8:00
DR. BECHTEL

23. **The Minor Augustan Poets.**—The minor works of Ovid together with Propertius and Tibullus.

Mj. Spring Quarter; 9:30
ASSOCIATE PROFESSOR MILLER

24. **The Life and Works of Virgil.**

Mj. Summer Quarter; 10:30
ASSOCIATE PROFESSOR MILLER

25. **Virgil: "The Georgics;" Tibullus and Propertius.** The work in Virgil will deal with the history of didactic poetry, with Virgil's diction and his treatment of the hexameter, with the construction of the *Georgics* and with their religious and patriotic temper. Sufficient selections will be read from Tibullus and Propertius to exhibit the place and consequence of these poets in the history of the development of the Augustan literature. PROFESSOR CHANDLER

[Not to be given in 1907–8]

27. **Virgil: Æneid, Books VII–XII.**—This course presupposes considerable familiarity with Virgil on the part of the student. It is, in the first place, a rapid reading course, covering the ground mentioned in the title; in the second place, it will include a topical study of several great themes connected with the *Aeneid.* Each student will be expected to select a special topic for investigation, upon which he will prepare a paper under the direction of the instructor.

ASSOCIATE PROFESSOR MILLER

[Not to be given in 1907–8]

28. **Tacitus and Suetonius.** — The object of the course will be as much historical as literary. Collateral reading in modern histories of Rome will accompany the study of the authors.

Mj. Summer Quarter; 10:30
PROFESSOR CHANDLER

29. **Juvenal.**—The main object of the course will be as described under Course 15 above; but, in addition, much attention will be paid to the accurate and intelligent rendering of the verse.

Mj. Summer Quarter; 9:00
DR. BECHTEL

30. **Latin Hymns and Christian Prose.** — The two objects of the course are to present a view of the intellectual and moral tendencies of the centuries immediately following the decadence of pagan literature, and to give some acquaintance with the development of later Latin on the side of vocabulary, syntax, and general style.

PROFESSOR CHANDLER

[Not to be given in 1907–8]

31. **The Historical Development of Roman Oratory.**—The course will take up the remains of the early orators in Valerius Maximus, Aulus Gellius, Macrobius, and other writers, and will also include selections from Cicero's *Orations* and the *Panegyric* of Pliny. The *Brutus* of Cicero will be used as a general guide; and passages from the *Orator* and *De Oratore* of Cicero, the *Dialogus* of Tacitus, and the *Institutes* of Quintilian will serve as additional commentary.

PROFESSOR CHANDLER

[Not to be given in 1907–8]

32. **Seneca: The Tragedies.**—The history of tragedy will be traced through the extant fragments; and an examination into the sources of the tragedies will be made. The greater part of the course, however, will be devoted to the tragedies of Seneca.

ASSOCIATE PROFESSOR MILLER

[Not to be given in 1907–8]

33. **Later Epic Poetry.** — The course will be based on Lucan, Silius Italicus, and Statius. Their subjects and literary methods will be discussed, and in particular the relation which their epics bear to the *Æneid.* PROFESSOR ABBOTT

[Not to be given in 1907–8]

34. **The Historical Development of Roman Satire, Followed by a Detailed Study of Persius.**—In this course the development of Satire will be traced by the aid of the extant fragments, through Ennius, Lucilius, and Varro, to Horace. Especial attention will be paid to the fragments of Lucilius and of the *Menippean Satires* of Varro.

ASSOCIATE PROFESSOR MILLER

[Not to be given in 1907–8]

35. **Quintilian, Book X.**—Introductory lectures on the principles and technique of ancient literary criticism, followed by a detailed study of the character and sources of the literary criticism in the work named.

PROFESSOR HENDRICKSON

[Not to be given in 1907–8]

36. **Cicero: The Philosophical Works.** — Selections

will be read from the *De Finibus*, the *Academica*, and the *De Natura Deorum*, with reference both to the philosophical content and to style.

PROFESSOR CHANDLER

[Not to be given in 1907–8]

37. **Roman Thought concerning the Future State of the Soul: I, Studied from the Literature.**—Cicero's *Tusculan Disputations*, Book I, is made the basis for the study. In addition, passages bearing upon the subject will be read from other philosophical works of Cicero, and from his *Letters;* also from Lucretius, Virgil, Horace, Seneca, and other authors.

ASSOCIATE PROFESSOR MILLER

[Not to be given in 1907–8]

37A. **Roman Thought concerning the Future State of the Soul: II, Studied from the Inscriptions.**—The Roman sepulchral inscriptions, as collected in Bücheler's *Carmina Latina Epigraphica*, will be used as material.

Mj. Autumn Quarter; 8:30

ASSOCIATE PROFESSOR MILLER

38. **Teachers' General Training Course.**—Pronunciation and the reading of prose and verse. Rapid survey of the syntax of the cases, moods, and tenses, and of the principles of Latin order, in connection especially with the authors read in the high school. Exercises in the application of these principles in acquiring the power of reading.

PROFESSOR HALE

[Not to be given in 1907–8]

39. **Course for Teachers.**—This is not a pedagogical course, but it is intended to supplement the more specific courses named below. In it certain fundamental subjects, with which all teachers should have a general acquaintance, will be taken up. Such topics will be discussed as the relation of the several fields of classical study to one another; the transmission and reconstruction of classical texts; the formation and use of a critical apparatus; the evidence bearing on certain difficult points in pronunciation; the structure of the common verses, with practical exercises in reading them; the making of a lexicon; the historical sources for a given period, and the method to be employed in testing their credibility.

PROFESSOR ABBOTT

[Not to be given in 1907–8]

40, 41. **Teachers' Training Course.**—A study of the work of one of the four years of the high school, conducted partly through the instruction of a class of young students in the University High School, and partly through informal lectures and the discussion of assigned material in the subject-matter of the course. Members of the course will from time to time take part in the instruction of the University High School class. The course will generally be given for two Quarters, but may be elected by University students for either Quarter, or for both.

PROFESSOR HALE

[Not to be given in 1907–8]

43. **Teachers' Training Course.**—A study, through a single Quarter, of one of the authors taught in the high school. The work will be supplemented from time to time by visits to the corresponding classes in the University High School.

ASSOCIATE PROFESSOR MILLER

[Not to be given in 1907–8]

44. **Martial.**—Considerable portions of the author will be read and studied with reference to their literary art and as portraying the state of Roman society under the Early Empire.

PROFESSOR CHANDLER

[Not to be given in 1907–8]

45. **The Influeuce of Classical Mythology on English Poetry.**—The myths themselves will be studied from all the more available sources, with Ovid's *Metamorphoses* as the main source. Representative English poets will then be examined in order to determine the extent and method of their use of classical mythology.

Mj. Summer Quarter; 9:00

ASSOCIATE PROFESSOR MILLER

50. **Research Course in Livy.**—The course will be based mainly on the early part of Livy's narrative. Special topics, such as the constitution of the centuriate *comitia*, the episode of the decemvirate, and the career of Appius Claudius, will be taken up for consideration.

PROFESSOR ABBOTT

[Not to be given in 1907–8]

51. **Research Course in Roman Politics.**—The political history of the years 62–57, 49–48, and 44–43 B. C. will be studied from the sources; the careers of the leading politicians of those years will be followed, and the character and purposes of the several political parties will be examined. See No. 55.

PROFESSOR ABBOTT

[Not to be given in 1907–8]

52. **Roman Private Life.**—A systematic treatment

with illustrations (by lantern views, photographs, etc.) from the remains of ancient art and, in particular, from the remains discovered in Pompeii, Herculaneum, and Rome.

ASSOCIATE PROFESSOR LAING

[Not to be given in 1907–8]

53. **Roman Religion.** — The course will deal with the domestic, gentile, and public worship of the Romans. Special attention will be given to the festivals and priestly orders. The work will be carried on by lectures and reports.

ASSOCIATE PROFESSOR LAING

[Not to be given in 1907–8]

54. **Roman Political Institutions.** — The course will deal topically with the magistracies, the senate, the popular assemblies, and the courts of the Republic. It is intended primarily for teachers of Latin or Political Science.

PROFESSOR ABBOTT

[Not to be given in 1907–8]

55. **Roman Provincial Administration.**—A study of the Roman system of government and taxation in the provinces, based mainly upon Cicero's orations against Verres and his letters from Cilicia, Pliny's correspondence with Trajan, and the inscriptions. This course is intended to supplement No. 51. PROFESSOR ABBOTT

[Not to be given in 1907–8]

56. **Early Latin.**—Allen's *Remnants*, Merry's *Fragments of Roman Poetry*, and Bücheler's *Carmina Epigraphica*. The object of the course is especially to give some clear and ordered knowledge of the beginnings of Roman literature. The treatment will be mainly philological and literary. PROFESSOR ABBOTT

[Not to be given in 1907–8]

57. **Introduction to Latin Epigraphy.**—The course is planned to give students some knowledge of the material which is contained in the *Corpus Inscriptionum Latinarum* for the study of the Latin language and Roman life, and to equip those who go abroad to pursue their studies in Rome, or in museums and libraries elsewhere, with a working knowledge of epigraphy.

Mj. Autumn Quarter; 9:30

PROFESSOR ABBOTT

58. **Introduction to Latin Paleography.** — The course will consist of lectures by the instructor, and practical work by members of the class upon facsimiles of manuscripts.

M. First Term, Summer Quarter; 9:00

MISS BALLOU

59. **Roman Private Law.**—The historical development of Roman law from the republican period to the time of Justinian will be traced, while special emphasis will be laid upon those topics of the law which come most closely in contact with the life and literature of the Romans. Robinson's *Selections from Roman Law*, will be used as a text to be supplemented by additional readings from the *Corpus*.

Mj. Winter Quarter; 12:00

DR. BECHTEL

60. **History of Roman Literature.**—It is the plan of the Department to offer during one Quarter in each year a course of detailed study in the history of some period or department of Roman Literature. The lectures of the instructor will aim to guide the reading of students, and the primary object of the course will be to afford them assistance in gaining actual acquaintance with representative works of the period or subject under consideration.

PROFESSOR HENDRICKSON

[Not to be given in 1907–8]

62. **Prose of the Late Empire.**—Special attention will be devoted to the development of Christian Latin Prose, and the *Octavius* of Minucius Felix, as well as portions of Augustine's *Confessions* and *De Civitate Dei*, will be read. At the same time the pagan culture of the fourth and fifth centuries will not be neglected, and the collateral reading will include Symmachus and Macrobius.

DR. BECHTEL

[Not to be given in 1907–8]

64. **The Brutus of Cicero and the History of Roman Oratory.** Mj. Summer Quarter; 11:30

PROFESSOR HENDRICKSON

65. **Latin Versification and the Rhythms of Latin Prose.**—A study of ancient rhythmical and metrical theory, with practical exercises in reading Latin verse and specimens of rhythmical prose.

PROFESSOR HENDRICKSON

[Not to be given in 1907–8]

66. **Translation as an Art.**—The object of this course is not to present methods of translation for the beginner, from the pedagogical standpoint, but to study the art of producing the translation of a given work as a polished piece of literature. Famous translations will be studied as models; the principles governing artistic translation will be observed and formulated; and practice will

be given the student in applying these principles in the translation of varied selections.

ASSOCIATE PROFESSOR MILLER

[Not to be given in 1907–8]

67, 68. **Catullus:** Research Course. Latin Paleography, with special reference to the text of Catullus. 2Mj. Winter and Spring Quarters; 8:30

PROFESSOR HALE.

70. **History of Virgilian Interpretation.**—The ancient, mediæval, and modern masters of Virgilian interpretation and criticism will be studied, and their attitude and method noted. Of the modern students of Virgil especial attention will be given to the English, French, and German schools. (See Department XVI.)

Mj. Spring Quarter; 11:00

ASSOCIATE PROFESSOR MILLER

71. **Latin Poetry: Lectures and Studies.**—The field of Latin Poetry will be studied under the five great divisions of dramatic, epic, satiric, lyric, and didactic poetry, a survey of each division being made chronologically. Lectures by the instructor will be supplemented by studies presented in the form of papers by the class.

ASSOCIATE PROFESSOR MILLER

[Not to be given in 1907–8]

72. **Research Course in Roman Historiography.**—This course is especially intended for Graduate students during their first year of residence. It will aim to familiarize them with the first principles of text-criticism, with the proper use of the literature, and with methods of research. The material chosen for interpretation will be from the first and twenty-first books of Livy. In connection with the course a class meeting once a week for the rapid reading of considerable portions of Livy will be organized.

Mj. Spring Quarter, Tu., 4:00–6:00

ASSOCIATE PROFESSOR LAING

73. **Research Course in Tacitus: The Agricola and Dialogus.** PROFESSOR HENDRICKSON

[Not to be given in 1907–8]

THE SEMINARS

75, 76, 77, **Seminar 1: Horace, the Odes, Sermones, and Epistulae, with the History of Roman Satire.**—This seminar is especially planned for students who are beginning graduate work. It will aim to familiarize them with the first principles of text criticism, with the proper use of the literature, and with methods of investigation.

ASSOCIATE PROFESSOR LAING AND PROFESSOR HENDRICKSON

[Not to be given in 1907–8]

78. **Seminar 2: Roman Historiography.**—The material chosen for interpretation will be the *Agricola* of Tacitus and the Corbulo episode from the *Annals.*

Mj. Summer Quarter, Tu., 4:00–6:00

PROFESSOR HENDRICKSON

80, 81. **Seminar 3: Colloquial Latin.**—The object of the Seminar will be to investigate some of the characteristics of colloquial Latin in the matter of lexicography, pronunciation, syntax, and style, and to determine to some extent the relation of colloquial to literary Latin, as well as its connection with archaic Latin on the one hand, and with the Romance languages on the other. PROFESSOR ABBOTT

[Not to be given in 1907–8]

82, 83. **Seminar 4: The Latin Romance.**—Attention will be directed in the main upon Petronius and Apuleius. The purpose of this course will be to study the origin, the history and the characteristics of the Latin Romance. Papers will be presented from time to time by the members of the class.

2Mj. Autumn and Winter Quarters; Tu., 4:00–6:00 PROFESSOR ABBOTT

84, 85, 86. **Seminar 5: The Comparative Syntax of Latin and Greek.**—The work of the Seminar will deal first with the general question of methods of attack in syntactical investigation and the fundamental principles properly governing it, and then with detailed problems. The *Iliad,* Books I–III, and Plautus, *Captivi* and *Trinummus,* will be used for material. Papers will be prepared and discussed at meetings of the class.

2Mj. Winter and Spring Quarters; Th., 4:00–6:00 PROFESSOR HALE

COURSES IN GREEK AND LATIN OFFERED BY THE DEPARTMENT OF SANSKRIT AND INDO-EUROPEAN PHILOLOGY

2. **Outlines of the Comparative Grammar of Greek and Latin (Sounds and Inflections).**—This course, which is intended primarily for classical students, is meant to be eminently practical, emphasizing those relations which can be understood from a study of the Greek and Latin

languages themselves, and the facts which are most helpful to an understanding of the historical development of each language.

Mj. Autumn Quarter; 11:00
PROFESSOR BUCK

3. **Exercises in Greek and Latin Historical Grammar.**—The time is equally divided between Greek and Latin, and either half of the work may be taken separately as a Minor.

Mj. Winter Quarter; 11:00
PROFESSOR BUCK

4. **Historical Latin Grammar.**—Lectures and exercises upon the history of Latin sounds and inflections.

M. First Term, Summer Quarter; 10:30
PROFESSOR BUCK

COGNATE COURSES IN OTHER DEPARTMENTS

According to the student's individual bent, his work may be furthered by the taking of certain courses in other Departments. Thus (outside of the courses offered by the Department of Greek) note especially Courses 1 and 11–20 offered by the Department of Sanskrit and Comparative Philology; Courses 33, 41, and 63 offered by the Department of Romance Languages and Literatures; Courses 103, 109, and 112 offered by the Department of Germanic Languages and Literatures; Courses 21 and 30 offered by the Department of English; Courses 2–11 offered by the Department of the History of Art.

XIII. THE DEPARTMENT OF ROMANCE LANGUAGES AND LITERATURES

OFFICERS OF INSTRUCTION

KARL PIETSCH, PH.D., *Associate Professor of Romance Philology.*
THOMAS ATKINSON JENKINS, PH.D., *Associate Professor of French Philology.*
GEORGE CARTER HOWLAND, A.M., *Assistant Professor of Italian Philology.*
ELIZABETH WALLACE, S.B., *Assistant Professor of French Literature.*
HIRAM PARKER WILLIAMSON, A.M., *Assistant Professor of French.*
THEODORE LEE NEFF, PH.D., *Instructor in French.*
RALPH EMERSON HOUSE, A.M., *Instructor in Romance Languages.*
HENRI CHARLES EDOUARD DAVID, A.M., *Instructor in French.*
EARLE BROWNELL BABCOCK, A.B., *Instructor in French.*

FELLOWS, 1906-7

ANA JULE ENKE, A.B. AMEDEO CORRADO NOBILI EDITH RUDOLPH, A.B.

INTRODUCTORY

The *Junior Colleges* provide elementary and intermediate courses in the French language. Students who have completed these courses commendably, and who have made good use of auxiliary opportunities, may expect to possess a good command of spoken French, an accurate reading knowledge of the language, and an acquaintance with the more important modern, and a few classic authors.

In the *Senior Colleges* the student is led to an appreciation of the masterpieces of classic and modern literature; at the same time his colloquial command is maintained and strengthened. Most of these courses are conducted in French. In addition, the student may elect the elementary and intermediate courses in Italian and Spanish.

In the *Graduate School* the instruction consists mainly of courses whose object is to put students in possession of the results already achieved in Romance linguistics and the history of the Romance literatures. The first year graduate studies correspond in a general way to the requirements for the "specialist" Master's degree; they are planned to meet the needs of those who are preparing to occupy positions which provide elementary and intermediate instruction in French, Italian, or Spanish. In the second and third years of graduate studies the aim is to impart to students, along with much that is in the nature of necessary information, an appreciation of sound methods of dealing with linguistic and literary facts and theories. This appreciation once reached, and granted the needed industry and enthusiasm, the student may attempt research work with good chance of success.

To be admitted as candidates for either of the higher degrees, students must furnish evidence of (*a*) preparation equal to three years' work in modern French (or nine Majors); (*b*) a reading knowledge of either Spanish or Italian.

The Master's degree. — For the general conditions of candidacy for this degree, see pp. 11, 12. The special requirements are: (*a*) Courses 23, 31, 33, 39, 59, and 79, and two additional courses, preferably 21 and 41; (*b*) a satisfactory dissertation upon a subject approved by the Head of the Department; this must be presented at least eight weeks before the Convocation at which the candidate expects to receive the degree; (*c*) a satisfactory oral examination before the Faculty of the Department.

The Doctor's degree. — For the general conditions, see p. 11. With *Romance as secondary subject*, nine majors are required, to be selected from the regular graduate courses, after conference with the Head of the Department. At least one major shall be in Spanish or Italian. With *Romance as principal subject* the minimum requirements are: (*a*) eight majors in French language, four majors in modern French literature, one major in Spanish, one major in Italian, and four additional majors in either Spanish or Italian; (*b*) a satisfactory dissertation upon a subject which shall have been approved by the Head of the Department at least twelve months before the proposed date of the final examinations; the dissertation must be presented in a form practically complete at least four months before the Convocation at which the candidate expects to receive the degree; (*c*) a satisfactory written, and the public oral, examinations, the latter before a committee consisting of the Faculty of the Department and one or more members appointed by the President of the University.

Candidates for the degree of Doctor of Philosophy who desire to specialize in modern French literature may reverse the proportions of linguistic and literary courses in French indicated above, that is, such candidates are required to complete at least four majors in French language (Courses 31, 33, 39, 41). Under the title "eight majors in French language" are included a course in Popular Latin and a course in Provençal language and literature (Course 49). Candidates who desire to specialize in Italian or Spanish (or in both) will consult with the Head of the Department in regard to substitutions in the requirements outlined above.

It should be noted that the Doctor's degree will not be conferred merely for faithful and careful work, however great in amount. The candidate must possess special aptitudes for linguistic or literary studies, and show the power to investigate on independent lines. Three years, one of which may profitably be spent abroad, is the minimum of time usually required by those who possess the requisite capacity and preparation.

Two *Scholarships*, each yielding a sum equal to the University tuition fees for three quarters ($120), are awarded annually in the Spring Quarter. The *Graduate Scholarship* is awarded for excellence in the department studies of the Senior Colleges during the academic year. The *Senior College Scholarship* is awarded for similar excellence in the studies of the Junior Colleges.

The *Fellowships*, each yielding usually the sum of $320, are assigned upon the basis of special aptitude shown in the field of Romance Languages. Applicants should forward to the President of the University definite statements in regard to past courses of study, including degrees, honors received, etc., together with specimens of written or printed work done in the Romance field. Applications must be received by the President **not later than March 1** of each year, and are assigned during the first week of April. No Fellow is permitted to give private instruction of any kind. He is expected to render assistance of some sort in connection with the work of the University, to the extent of not more than one-sixth of his time, and, in general, by example and personal influence, to make the interests of the Department his own.

The *Romance Library*, recently enlarged by important additions, adjoins the Libraries of the Departments of English and German. It is supplied with all the principal journals in the French, Spanish, and Italian fields of study, and with the treatises and works of reference necessary to illustrate the courses given and to carry on research work.

The *Cercle de Conversation française* meets once in two weeks during the academic year.

The *Romance Club* meets on the second Wednesday in each month during the academic year. All Graduate students and instructors of the Department are members; journal notices, book reviews, and original papers are read and informally discussed.

It is intended that the graduate courses offered by this Department in the *Summer Quarter* shall, as far as practicable, be so arranged that qualified students may proceed regularly to the higher degrees by attendance in successive Summer Quarters.

COURSES OF INSTRUCTION

I. Courses in French Language and Composition

For the Senior Colleges

10. **Cours de Style.**—Principes généraux, exercices pratiques de composition française.
Mj. Winter Quarter; 12:00
Mr. David

II. Courses in French Literature

For the Senior Colleges (Prerequisite: 9 Majors)

23. **Victor Hugo.**—Les poésies de la période d'exil seront l'objet d'une étude spéciale.
Mj. Spring Quarter; 11:00
Mr. David

39. **French Literature from the Pléiade to Montaigne.** The origins of Classicism in France; lectures and readings.
Mj. Summer Quarter; 11:30
Associate Professor Jenkins

For the Graduate School

25. **Rousseau.**—The literary *rôle* of Rousseau and the beginnings of Romanticism in France.
Mj. Winter Quarter; 11:00
Mr. David

III. Courses in Phonetics and the History of the French Language

For the Senior Colleges (Prerequisite: 9 majors)

31. **French Phonetics.**—An acquaintance with the elements of general phonetics is considered essential to sound linguistic work, while a correct understanding of the French and English sounds is a great help in teaching French pronunciation. The works of Viëtor, Passy, Rousselot, etc. Mj. Winter Quarter; 8:30
Associate Professor Jenkins

33. **History of the French Language.**—A descriptive course on the origin and general history of standard French, intended also as an introduction to the methods used in historical grammar. Nyrop, *Grammaire historique*, I (2ème éd.).
Mj. Autumn Quarter; 8:30
Associate Professor Jenkins

For the Graduate School

41. **Old French: Elementary Course.**—Grammar and reading. Constans, *Chrestomathie de l'ancien français*, 3ème éd., 1906.
Mj. Autumn Quarter; 9:30
Associate Professor Jenkins

43. **Historical French Grammar, I.**—Nyrop. *Grammaire historique*, Tomes I (2ème éd.) et II. A reading knowledge of Old French (see Course 41) is prerequisite. Mj. Winter Quarter; 9:30
Associate Professor Jenkins

46. **Mediæval French Literature.**—The literature of the period from Machault to Villon; the French pre-Renaissance. The *Manuals* of Paris and Heuckenkamp; Villon's poems, ed. von Wurzbach, Erlangen, 1903.
Mj. Summer Quarter; 10:30
Associate Professor Jenkins

48. **Old French Seminar.**—The dialects prominent in the literature of the XIIth century; the origins of standard French, its dialectical basis, and the causes of its predominance. Suchier, *Les Voyelles toniques en vieux français* (Traduction Guerlin de Guer, 1906).
Associate Professor Jenkins
[Not to be given in 1907–8]

IV. Courses in Italian, Spanish, and Provençal

For the Senior Colleges

59. **Dante.**—*Il Purgatorio* (Scartazzini's edition).
Mj. Spring Quarter; 9:30
Assistant Professor Howland

79. **Spanish Classics.**—The life and works of Cervantes. Selected dramas of Lope de Vega and Calderon. These subjects are treated alternately. Mj. Spring Quarter; 2:00
Associate Professor Pietsch

For the Graduate School

49. **Old Provençal.**—Old Provençal literature and its influence during the Middle Ages. Appel, *Provenzalische Chrestomathie* (Leipzig, 1902).
Associate Professor Pietsch
[Not to be given in 1907–8]

61. **Old Italian Readings.**—Monaci, *Crestomazia italiana dei primi secoli.*
Mj. Spring Quarter; 8:30
Assistant Professor Howland

63. **Historical Italian Grammar.**—Phonology and morphology, especially of the Tuscan dialects. Meyer-Lübke, *Grammatica storico-comparata della lingua italiana* (Torino, 1901).
Assistant Professor Howland
[Not to be given in 1907–8]

66. **History of Old Italian Literature.**—From the beginnings to Dante. Lectures. Bartoli, Gaspary, and other works of reference.
Mj. Winter Quarter; 8:30
Assistant Professor Howland

68. **Italian Seminar.**—Petrarca: the works in Latin and in Italian. Mj
ASSISTANT PROFESSOR HOWLAND
[Not to be given in 1907–8]

81. **Old Spanish Readings.**—Interpretation of selections from Keller, *Altspanisches Lesebuch.* (Leipzig, 1890.) Mj. Autumn Quarter; 3:00
ASSOCIATE PROFESSOR PIETSCH

83. **Historical Spanish Grammar.** — Sounds and Inflections. Lectures and practical exercises on Old Spanish Texts. R. Menéndez Pidal, *Manual elemental de Gramática histórica española.* (Madrid, 1905.) Mj. Winter Quarter; 3:00
ASSOCIATE PROFESSOR PIETSCH

86. **History of Old Spanish Literature.**—A review of Spanish literature previous to the classic period. Fitzmaurice-Kelly, *Historia de la Literatura española* (Madrid).
ASSOCIATE PROFESSOR PIETSCH
[Not to be given in 1907–8]

88. **Spanish Seminar.** — Exercises, linguistic and literary, based on the *Libro de Buen Amor* of Juan Ruiz, Arcipreste de Hita, ed. Ducamin, Toulouse, 1901.
ASSOCIATE PROFESSOR PIETSCH
[Not to be given in 1907–8]

XIV. THE DEPARTMENT OF GERMANIC LANGUAGES AND LITERATURES

OFFICERS OF INSTRUCTION

STARR WILLARD CUTTING, PH.D., *Professor and Head of the Department of Germanic Languages and Literatures.*
†HANS M. SCHMIDT-WARTENBERG, PH.D., *Assistant Professor of Germanic Philology.*
PAUL OSKAR KERN, PH.D., *Assistant Professor of Germanic Philology.*
FRANCIS ASBURY WOOD, PH.D., *Assistant Professor of Germanic Philology.*
PHILIP SCHUYLER ALLEN, PH.D., *Assistant Professor of German Literature.*
MARTIN SCHÜTZE, PH.D., *Assistant Professor of German Literature.*
ADOLF CHARLES VON NOÉ, PH.D., *Instructor in German Literature.*
CHARLES GOETTSCH, A.B., *Instructor in German.*
JOHN JACOB MEYER, PH.D., *Associate in German.*
HANS ERNST GRONOW, PH.B., *Associate in German.*
JACOB HAROLD HEINZELMAN, A.B., *Assistant in German.*

FELLOWS, 1906-7

MILTON D. BAUMGARTNER, A.M. JACOB HAROLD HEINZELMAN, A.B.
EDWARD JOHN WILLIAMSON, A.M.

INTRODUCTORY

For students who enter the University with no previous training in German, elementary and intermediate courses are offered, whose primary aim is to enable the student to read and to understand easily and accurately, without translation, German prose of ordinary difficulty. As a logical sequent of this initial instruction, advanced courses in language and literature are offered students who have taken these elementary and intermediate courses at the University of Chicago, or elsewhere. Prose composition, including translation into German of rather difficult English prose and construction of original German essays, is the prime feature of the advanced language work; in literature individual authors or periods of literary development become the subject of lectures, discussions, and themes. A strengthened grasp of the syntactic and stylistic resources of the language will be secured simultaneously with increased literary appreciation.

The German courses of the Junior College (six majors), plus at least eight Senior College elective majors, or an equivalent, are required for admission to the graduate work of the Department. Graduate students from other institutions, whose preliminary training in German has been deficient either in quantity or quality, may

†On leave of absence.

be required to supplement their previous work by Senior College electives before admission to the standing of Graduate students in the Department. One Senior College elective (Course 11) may be accredited to the Graduate student as resident work.

The aims of the graduate courses offered by the Department are as follows: (1) To acquaint the student already in possession of a practical grasp of the German language with the great movements of literary and linguistic development within the Teutonic field, outside of English. (2) To direct the efforts of students, who have already received the requisite preliminary training, in the investigation of special problems of phonetics, phonology, morphology, syntax, metrics, style, text criticism, and literary history, including especially literary origins and relationships.

Lectures and recitations are employed in the more general, and seminars in the more special and detailed features of the work. Still more personal direction is given by the instructor to the research student.

The Master's degree.—The minimum requirements for the Master's degree, when all the work is in this Department, are eight graduate majors, including Gothic, Old High German, History of the German Language, Outline Course in German Literature, and *Deutscher Satzbau und Stil,* plus a satisfactory thesis upon a subject approved by the Head of the Department and presented by the candidate at least two months before the Convocation at which the degree may be conferred.

The Doctor's degree.—When the major work is in this Department, the requirements are: (1) A thorough command of oral and written modern German (2) Acquaintance with the general history of German literature (e.g., Courses 141 and 142). (3) Acquaintance with the general development of the German language (e.g., Courses 103, 104, 105, 107). (4) More intimate knowledge of the history of the language or of the literature, according to the prevailing trend of the student's special work. (5) Minute acquaintance of the period within which the materials of the student's dissertation lie. (6) A satisfactory dissertation upon a subject approved by the Head of the Department, and presented by the candidate at least four months before the Convocation at which the degree may be conferred. (7) A satisfactory examination. With Germanics as secondary subject, the requirements are nine graduate major courses, including 103, 141, and 142, selected with the approval of the Head of the Department in which the principal work is done.

Since the Department expects primarily in the candidate some capacity for independent thinking, and for the successful investigation of hitherto unsolved linguistic or literary problems, and since it never recommends conferring the degree for the mere faithful and accurate performance of a prescribed amount of work, no estimate of the maximum time required to prepare for the examination can be given. Three years are the usual minimum.

Fellowships are assigned in accordance with the general regulations of the University. Circulars relating to this subject will be sent on application.

A Senior College Scholarship in German is annually awarded in June to a student who has received the Junior College certificate within the year then ending (October to July). The award is based upon: (*a*) the completion of the required Junior College German, including Courses XIV, 4, 5, 6, with grade not lower than B; and (*b*) a written and oral examination, to be conducted in German, on some work to be announced each year by this Department. This work is for the year 1907–8 Heinrich von Kleist's *Michael Kohlhaas* (Henry Holt & Co.). Candidates will consult the Departmental Examiner concerning such examinations.

A Graduate Scholarship in German is annually awarded in June to a student who has received the Bachelor's degree within the year then ending (October to July). This award is based: (*a*) upon the completion of at least eight Senior College majors, including Course XIV, 11; and (*b*) a written and oral examination to be conducted in German, on some theme to be announced each year by the Department. The theme for the year 1907–8 will be "The Peculiarities of Metre, Style, and Content in Goethe's Storm and Stress Lyrics." Candidates will consult the Departmental Examiner concerning such examinations.

The Conrad Seipp Memorial Prizes, founded by Mrs. Catherine Seipp.—Three prizes of $3,000, $2,000, and $1,000 respectively are offered in a competition open to all, save the German Consul at Chicago, the German Consul-General in New York, and the Judges of Prizes, for the three best Monographs upon the subject: "The German Element in the United States, with Especial Reference to its Political, Moral, Social, and Educational Influence." Circulars containing particulars sent on application.

Library.—Through the generosity of Mr. Julius Rosenwald the Department has been able to purchase the library of the late Professor Michael Bernays, embracing about nine thousand volumes. Texts of the eighteenth-century classics in Germany, of the German Romanticists, and of later nineteenth-century writers are the

basis of the collection. It also contains a large number of investigations in German literature of the eighteenth and nineteenth centuries. The whole is supplemented by numerous texts of the French classics of the eighteenth century and of mediæval Italian poets. These recent additions increase the size of the Germanic library to a total of about seventeen thousand volumes. This collection and the libraries of the English and Romance departments are in adjoining rooms and are administered as one. The libraries of other departments, as of History, Philosophy, the Classical Languages and Literatures, and also the Newberry Library, the Crerar Library, and the Public Library of the City of Chicago, supplement for the student the value of the Germanic library.

The Germanic Club, including candidates for advanced degrees, other advanced students, and all instructors of the Department, meets twice each quarter for the reading and discussion of journal reports, reviews, and original papers upon subjects in language and literature within the scope of the regular work of the members.

The German Conversation Club is an organization of undergraduate and graduate students under the leadership of a member of the Germanic Department. Its purpose is to arouse and sustain interest in the German language as a vehicle of oral expression. Membership, open to those who have already made some progress in the language, while it entitles the student to no extra academic credit, supplements the regular class work in the direction of greatly increased *Sprachfertigkeit* and *Sprachgefühl.*

COURSES OF INSTRUCTION

III. Graduate Courses

Group A. Courses for Teachers

100. **The Teaching of Modern Languages** (A Study of Methods).—Lectures on the most important methods of modern language instruction. Pedagogic treatment of the main difficulties of pronunciation, grammar, and vocabulary. Selection and criticism of textbooks. Discussions on sight-reading, essay-writing, and kindred topics. Occasional opportunity for practice teaching. Textbooks: Bahlsen, *The Teaching of Modern Languages*, Ginn & Co.; Brebner, *The Method of Teaching Modern Languages in Germany*, London, 1904; *Methods of Teaching Modern Languages*, D. C. Heath & Co., 1896.

This course will be given in English; a reading knowledge of German and French is, however, indispensable. Mj
Summer Quarter; 9:00
Winter Quarter; 9:30
Assistant Professor Kern

101. **Deutscher Satzbau und Stil.**—A sequent of Course 11. The aim of the work is to develop an instinct for idiom and an active sense of the niceties of style, by discussing, varying, and independently reproducing passages from great stylists of the nineteenth century. Open to Senior College students who have taken Course 11. Mj. Spring Quarter; 8:30
Assistant Professor Kern

Group B. Courses in Linguistics

103. **Gothic.**—A consideration of Gothic phonology, morphology, and syntax in connection with the reading of selections from the Bible translation of Ulfilas. Mj. Summer Quarter; 1:30
Autumn Quarter; 2:00
Assistant Professor Wood

104. **Old High German.**—The reading of selections from Braune's *Althochdeutsches Lesebuch*, with reference to the same author's *Althochdeutsche Grammatik*. This course is a natural sequent of Course 103. Mj. Winter Quarter; 2:00
Assistant Professor Wood

105. **Middle High German.**—An introductory course that includes discipline in phonology, morphology, and syntax, derived from the critical reading of Hartmann von Aue, *Der arme Heinrich* (ed. Wackernagel-Toischer). Incidental practice in German prose composition is afforded by translation of the mediæval into the modern idiom. Assistant Professor Kern
[Not to be given in 1907–8]

106. **Early New High German.**—After a rapid survey of the Middle High German grammar, the forms of the transition period will be studied with the help of some text of the period of the Reformation. Assistant Professor Kern
[Not to be given in 1907–8]

107. **Geschichte der deutschen Sprache.**—Vorlesungen im Anschluss an Behaghel's Artikel in Paul's *Grundriss*, I², pp. 650–780. Eine zusammenhängende Entwickelungsgeschichte der hochdeutschen Schriftsprache.

Kenntnis des Gotischen, Althochdeutschen und Mittelhochdeutschen wird vorausgesetzt.
Assistant Professor Kern
Mj. Spring Quarter; 9:30

108. **Introduction to Germanic Philology.**—A knowledge of at least one Germanic dialect is a prerequisite. ASSISTANT PROFESSOR WOOD
Mj. Autumn Quarter; 3:00

109. **Old Saxon.**—The work will be based on Holthausen's *Altsächsisches Elementarbuch.* Equally valuable for the student of English and of German.
ASSISTANT PROFESSOR WOOD
[Not to be given in 1907–8]

110. **Middle Low German.**—The work will be based on Lübben's *Mittelniederdeutsche Grammatik.*
ASSISTANT PROFESSOR WOOD
[Not to be given in 1907–8]

111. **Middle Low Franconian.**—The work will be based on Martin's *Reinaert.*
ASSISTANT PROFESSOR WOOD
[Not to be given in 1907–8]

112. **Old Norse.**—The work will be based on B. Kahle, *Altisländisches Elementarbuch.* A knowledge of Gothic is desirable.
Mj. Winter Quarter; 3:00
ASSISTANT PROFESSOR WOOD

Seminars

251. **Problems in Germanic Philology.**—With a Gothic text for a basis, this course aims to show the relation between Germanic and the other Indo-European languages, and the interrelation of the Germanic languages. Problems in phonology, morphology, and semasiology will be studied.
ASSISTANT PROFESSOR WOOD
[Not to be given in 1907–8]

252. **Investigations in Old High German Dialects.**—A careful study of specimens of the principal Old High German Dialects with reference to their relation to Germanic and to one another.
ASSISTANT PROFESSOR WOOD
[Not to be given in 1907–8]

GROUP C. COURSES IN LITERATURE

141. **History of German Literature to the End of the Seventeenth Century.**—Lectures. Scherer, *Geschichte der deutschen Litteratur* and Francke, *History of German Literature as Determined by Social Forces.* The course will acquaint the student with the most important movements in the evolution of German literary life.
ASSISTANT PROFESSOR ALLEN
[Not to be given in 1907–8]

142. **History of German Literature in the Eighteenth and Nineteenth Centuries.**—Lectures. Identical in aim and method with Course 141 of which it is a natural sequent. This course is open, however, to students who have not taken the former one.
ASSISTANT PROFESSOR ALLEN
[Not to be given in 1907–8]

145. **Germanische Mythologie.**—Vorlesungen mit Zugrundelegung von Mogk's Artikel in Paul's *Grundriss.*
PROFESSOR CUTTING
[Not to be given in 1907–8]

150. **Geschichte der Mittelhochdeutschen Litteratur.** Vorlesungen mit Übungen. Mj
PROFESSOR CUTTING
[Not to be given in 1907–8]

151. **The Nibelungenlied.**—A critical study of its legendary and mythological background, of its composition, and of its language. Some knowledge of Middle High German is a prerequisite for the course.
PROFESSOR CUTTING
[Not to be given in 1907–8]

152. **The German Epic.**—A survey of Early Germanic balladry will be followed by the reading and study of selected passages from the mediæval courtly and popular epics. Papers will be prepared by members of the class.
ASSISTANT PROFESSOR ALLEN
[Not to be given in 1907–8]

154. **Walther von der Vogelweide.**—Vorlesungen über sein Leben und seine Werke unter Berücksichtigung seiner Beziehungen zu früheren und späteren Dichtern.
PROFESSOR CUTTING
[Not to be given in 1907–8]

155. **Minnesangs Frühling.**—A study of the *Minnesang* based upon the reading and interpretation of Lachmann and Haupt's collection.
Mj. Autumn Quarter; 9:30
ASSISTANT PROFESSOR KERN

160. **Deutsche Kulturgeschichte vom Jahre 1200 bis zum Jahre 1550.**—Lectures upon the great cultural movements of this period within the bounds of the old German Empire.
Mj. Autumn Quarter; 8:30
PROFESSOR CUTTING

163A. **The Older German Volkslied.**—A history of German popular song from the earliest times to the end of the sixteenth century. Character and origin of the *Volkslied.* Consideration of

its importance in the history of German life, art, and literature.

M. First Term, Summer Quarter; 9:00
ASSISTANT PROFESSOR ALLEN

163B. **Renascence of the German Volkslied in the Eighteenth and Nineteenth Centuries.**—Its influence upon the poetical writings of Goethe, the Romantic School, and the Swabian School. A contribution to the history of the development of the modern German lyric and ballad.

M. Second Term, Summer Quarter; 9:00
ASSISTANT PROFESSOR ALLEN

171. **Schiller's Earlier and Later Theory of the Drama.**—A discussion of the ripening views of the dramatist in the light of his earlier and later theory and practice.

PROFESSOR CUTTING
[Not to be given in 1907-8]

177. **Herder and the "Storm and Stress" Movement.**—Herder's work is to the study of cultural history in Germany what Darwin's is to that of modern natural science. A thorough study of any of the subsequent movements in German literature, especially of the Classical era and the Romantic School, leads inevitably back to his evolutionary theory, and inquiry into this theory as expressed in his works and reflected, in its most uncompromising applications, in the works of the "Storm and Stress" movement, is fundamental to the understanding of modern German literature.

ASSISTANT PROFESSOR SCHÜTZE
[Not to be given in 1907-8]

178. **Goethe's Werthers Leiden.**—A critical account of the sources, the intrinsic significance, and the literary structure of the work.

Mj. Spring Quarter; 11:00
ASSISTANT PROFESSOR SCHÜTZE

179. **Goethe's Wilhelm Meister.**—An examination of its relation to the poet's life and thought.

Mj. Autumn Quarter; 11:00
ASSISTANT PROFESSOR SCHÜTZE

181. **Relations between Literature and Philosophy, from the Death of Lessing to 1848.**—The Classical era of German literature, and the Romantic movements in Germany, England, and France cannot be understood without a study of the principal tendencies in contemporaneous philosophic thought. It is to fill the gap between technical courses in Philosophy of this period on the one hand, and purely literary courses on the other, that this course is offered. Lectures in English, assigned reading, and reports.

ASSISTANT PROFESSOR SCHÜTZE
[Not to be given in 1907-8]

182. **Bibliographische Übungen in neuerer deutscher Litteratur.**—Diese Übungen sollen eine Einführung in die Kenntnis bibliographischer Hilfsmittel und Methoden geben. Open to advanced Seniors and to Graduate students.

2M. Autumn and Winter Quarters; 2:00
DR. VON NOÉ

183. **Das junge Deutschland.**—Die litterarische Bewegung von etwa 1830 bis 1840 in Deutschland.

Mj. Spring Quarter; 2:30
DR. VON NOÉ

204. **History of the German Novel.**—A survey in outline of the development of German prose fiction from mediæval times to Goethe will precede an intensive study of the trend of the novel from *Werther* to the present.

ASSISTANT PROFESSOR ALLEN
[Not to be given in 1907-8]

205. **Das deutsche Drama von den ersten Anfängen bis zum Jahre 1550.**

Mj. Winter Quarter; 2:00
PROFESSOR CUTTING
[Not to be given in 1907-8]

206. **History of the German Drama in the Seventeenth and Eighteenth Centuries.**—A study of French pseudo-classical influences in Germany, and of the growth of the national drama of the eighteenth century.

Mj. Spring Quarter; 8:30
PROFESSOR CUTTING

208. **History of the Drama in the Nineteenth Century, under the Influence of Romanticism: Kleist, Hebbel, Grillparzer, Otto Ludwig, Wagner.**

ASSISTANT PROFESSOR SCHÜTZE
[Not to be given in 1907-8]

210. **The Modern German Drama.**—The evolution of sociological and artistic tendencies in the modern drama beginning with Ibsen.

ASSISTANT PROFESSOR SCHÜTZE
[Not to be given in 1907-8]

Seminars

261. **Lyric Origins in Germany.**—A comparison of the theories of extraneous origin for Minnesang, together with an investigation of early German folk-poetry and of the lyrics in the *Carmina Burana.* A knowledge of Latin and French, while

highly desirable, is not a prerequisite of this course. Mj

ASSISTANT PROFESSOR ALLEN

[Not to be given in 1907–8]

262. **Das englische Drama in Deutschland im 16. und 17. Jahrhundert.**—Ein vergleichendes Studium der englischen und der deutschen Bühne unter Berücksichtigung der englischen Komödianten und ihrer Nachfolger.

PROFESSOR CUTTING

[Not to be given in 1907–8]

263. **Lessing's Theory of the Drama.**—An examination of Lessing's writings for evidence as to his earlier and later views on plot, motivation, characters, tragedy, comedy, etc. Hours to be arranged.

PROFESSOR CUTTING

[Not to be given in 1907–8]

264. **Goethe's Faust, I and II.**—Problems connected with the genesis and interpretation of the poem.

Mj. Winter Quarter; Wed., 4:00–6:00

PROFESSOR CUTTING

266. **Heine and Uhland.**—A study of the Romantic Lyric as exemplified in Wilhelm Müller and Eichendorff will precede an investigation of the sources and literary technique of the poems of Heine and Uhland.

ASSISTANT PROFESSOR ALLEN

[Not to be given in 1907–8]

267. **The German Novel.**—An investigation of several problems in connection with the evolution of prose fiction in Germany during the seventeenth and eighteenth centuries.

Mj. Summer Quarter; Wed., 3:30–5:30

Attention is called to the following related courses in other departments, especially valuable to students of Germanic Philology.

X, 1. **General Introduction to the Study of Indo-European Philology.** Mj. Autumn Quarter; 11:00

PROFESSOR BUCK

XV, 21, 22. **Old English** (Elementary Course).

2Mj. Autumn and Winter Quarters; 2:00

MR. ROYSTER

XV, 23. **Old English: Poetry.**

Mj. Spring Quarter; 2:00

ASSOCIATE PROFESSOR BLACKBURN

XV, 24. **Old English** (Advanced Course).

Mj. Autumn Quarter; 2:00

ASSOCIATE PROFESSOR BLACKBURN

XV, 31. **Introduction to the Science of Language.**

Mj. Spring Quarter; 3:00

PROFESSOR MANLY

XV. THE DEPARTMENT OF ENGLISH

OFFICERS OF INSTRUCTION

JOHN MATTHEWS MANLY, PH.D., *Professor and Head of the Department of English.*
WILLIAM CLEAVER WILKINSON, D.D., *Professor (Emeritus) of Poetry and Criticism.*
WILLIAM DARNALL MACCLINTOCK, A.M., *Professor of English.*
ROBERT HERRICK, A.B., *Professor of English.*
FRANCIS ADELBERT BLACKBURN, PH.D., *Associate Professor of English.*
ALBERT HARRIS TOLMAN, PH.D., *Associate Professor of English.*
MYRA REYNOLDS, PH.D., *Associate Professor of English.*
FREDERIC IVES CARPENTER, PH.D., *Associate Professor of English.*
ROBERT MORSS LOVETT, A.B., *Associate Professor of English.*
*WILLIAM VAUGHN MOODY, A.M., *Assistant Professor of English.*
JAMES WEBER LINN, A.B., *Assistant Professor of English.*
PERCY HOLMES BOYNTON, A.M., *Instructor in English.*
EDITH FOSTER FLINT, PH.B., *Instructor in English.*
HENRY PORTER CHANDLER, A.B., *Instructor in English.*
DAVID ALLAN ROBERTSON, A.B., *Instructor in English.*
JAMES FINCH ROYSTER, A.B., *Associate in English.*
ALBERT ELLSWORTH HILL, A.B., *Associate in English.*
THOMAS ALBERT KNOTT, A.B., *Associate in English.*
CARL HENRY GRABO, A.B., *Assistant in English.*

LINDSAY TODD DAMON, A.M., *Professor of English, Brown University* (Summer Quarter, 1907).
EDWIN ALMIRON GREENLAW, PH.D., *Professor of English, Adelphi College* (Summer Quarter, 1907).

*Absent on leave.

FELLOWS, 1906-7

MARGARET DAVIDSON, Ph.B.
HERBERT WYNFORD HILL, Ph.M.
THOMAS ALBERT KNOTT, A.B.
MATTHEW LYLE SPENCER, A.M.

INTRODUCTORY

Graduate students who did not as undergraduates devote especial attention to English should select their work at first from the courses intended primarily for Senior College students. Some familiarity with English studies and some experience in work is presupposed in the courses intended primarily for Graduate students. The following courses, though intended primarily for undergraduates, may be taken by Graduate students and will be credited toward the higher degrees: 5, 6, 7, 21, 22, 28, 31, 42, 43, 44, 46, 47, 48, 71, 72, 74, 75, 85, 86, 87A,B, 88, 90, 130, 160. The following courses are intended primarily for Graduate students and are open to all who are properly equipped for them in knowledge and experience in study: 23, 24, 25, 26, 27, 27A,B, 29A,B, 30, 33, 34, 35A,B,C, 36, 37A,B, 50, 51, 52, 54, 57, 58, 59, 62, 69, 70A,B, 73, 76, 77, 78, 80, 82, 83A,B, 84, 89, 91, 102, 103, 150, 161.

Fellowships and Scholarships.—The Department is allowed each year to recommend especially promising students for appointment to Fellowships and Scholarships. Applications for 1907–8 should be addressed to the President of the University before March 1, 1907. In assigning the fellowships preference will be given to persons who have devoted at least one year to graduate study in English and who submit papers indicating capacity for serious work. Scholarships may be assigned to recent graduates from college who have distinguished themselves in their work as well as to graduates of longer standing.

The Master's degree. — No student will be admitted to candidacy for the Master's degree in English who has not the equivalent of the required courses in English and four of Courses 42–48. For general regulations concerning the Master's degree see page 11. Students in the Department of English desiring the degree must submit to the Head of the Department reports from their instructors; otherwise they cannot be recommended for enrolment as candidates. The thesis must be presented to the Head of the Department eight weeks before the Convocation at which the candidate desires to receive the degree.

The Doctor's degree.—All candidates for the Doctor's degree in English, whatever may be their special field of work, must have a good knowledge of the general history of English Literature and a fair equipment in Old and Middle English. The minimum requirement in the former may be roughly indicated as represented by Courses 36, 42, 43, 44, 46, 47, 48, 51,70A,B, 85, 150, 160; this minimum is permitted only to those whose special interest is in linguistic study and who consequently take as their secondary subject either Germanic or Romance Philology; such students will of course take special linguistic courses in English. The minimum requirement in linguistic work for students whose special interest lies in the study of literature and literary history may be roughly indicated as given in Courses 21, 22, 23, 26. 27, 28, 31, 34. Students in this group are strongly advised to choose their secondary subject with immediate reference to its usefulness in the field to which they intend to devote special attention. Of prime importance to those who aim at a broad and enlightened knowledge of English literature in its greatest manifestations is a knowledge of the Greek, the Latin, the French, the Italian, and the German literatures. The relative importance of these varies in accordance with the field of English Literature chosen for special study; but it is believed that a sound knowledge of English Literature and a just appreciation of its phenomena is impossible without a considerable acquaintance with at least one of the great literatures of the civilized world and without some knowledge of the currents of foreign thought which were most influential in England during the period chosen for special study. The Head of the Department and the instructors will be glad to discuss with candidates their special interests and plans and to make suggestions in the furtherance of them.

A satisfactory dissertation upon a subject approved by the Head of the Department must be presented at least four months before the Convocation at which the candidate wishes to receive the degree. After the dissertation has been accepted the candidate must present himself for a special public examination in accordance with the general regulations of the University.

The Doctor's degree is not conferred merely for faithful and accurate work, however great in amount; the candidate must exhibit some capacity for investigation and independent thought. The requirements cannot therefore be stated in terms of years or courses. Three years is, however, usually necessary for a competent student who enters the Graduate School with a good equipment.

Library facilities.—The Library of the Department of English contains 10,000 volumes and increases usually at the rate of about 500 volumes a year. During the year 1904–5 a special fund of $8,000 was appropri-

ated for the purchase of books in English, Germanic, and Romance Philology, and during the year 1906–7 a special fund of $10,000 to the English library alone. The libraries of the three Departments constituting the Modern Language Group are in adjoining rooms and are administered as one. Together they contain about 30,000 volumes. Other departmental libraries of especial value to the student of English are those of History, Philosophy, and the Classical Languages and Literatures. Assistance of the greatest importance is constantly afforded by the Newberry Library, the Crerar Library, the Public Library of the city of Chicago, and the General Library of the University, containing about 300,000 volumes each.

COURSES OF INSTRUCTION

Courses in Rhetoric and English Composition

5, 6. **English Composition: Advanced Course.**—Courses 5 and 6 should be elected as a whole. These courses are open to students in the Senior Colleges (preferably members of Senior Divisions I–III) and the Graduate School who have attained a high grade in Courses 1, 3, and 4 or who otherwise satisfy the instructor of their ability to pursue the work. 2Mj

Summer Quarter (English 6); 9:00
Associate Professor Lovett
Winter and Spring Quarters; 11:00
Professor Herrick

7. **Rhetoric and Composition for Teachers.**—(1) The writing and the criticism of themes, with a study of the principles of structure; (2) a study of textbooks and methods of teaching English composition in secondary schools. Students in this course should have had experience in teaching English composition.

Mj. Summer Quarter; 10:30
Professor Damon

Courses in the English Language

21. **Old English: Elementary Course.**—Grammar and easy reading—Bright's *Anglo-Saxon Reader.*

Mj. Summer Quarter; 8:00
Mr. Royster
Autumn Quarter; 2:00
Mr. Knott

22. **Old English (continued).**—Readings in prose and the easier poetry, with review of the grammar.

Mj. Winter Quarter; 2:00
Mr. Knott

23. **Old English: Poetry.**—Reading of the *Beowulf* with study of meter and of the literary characteristics of Old English poetry.

Mj. Spring Quarter; 2:00
Associate Professor Blackburn

24. **Old English: Advanced Course.**—Rapid reading of selected works, both prose and poetry. For Graduate students only. Prerequisites: *Courses 21–23, or their equivalents.*

Mj. Autumn Quarter; 2:00
Associate Professor Blackburn

25. **Old English: Special Course.**—Study of some special text with reference to sources, grammatical peculiarities, construction of text, dialect, etc. For Graduate students only.

Mj. Winter Quarter; 2:00
Associate Professor Blackburn

26. **Early Middle English.**—Emerson's *Middle English Reader.* Special attention will be given to the grammatical development of the language and to dialectology. Prerequisite: *English 21.*

Mj. Winter Quarter; 3:00
Associate Professor Blackburn

27. **Later Middle English.**—The works to be discussed will be announced later.

Mj. Spring Quarter; 3:00
Associate Professor Blackburn

27A,B. **Problems in the Literature of the Fourteenth Century.**—Alliterative poetry exclusive of *Piers Plowman.* For Graduate students only. Prerequisite: *English 23 and 27.* 2Mj

Winter Quarter; 3:00
Spring Quarter; Wed., 4:00–6:00
Professor Manly

28. **Chaucer: The Canterbury Tales.**—An introductory course for students who have had no training in Middle English.

Mj. Second Term, Summer Quarter; 1:30
Professor Greenlaw
Autumn Quarter; 3:00
Professor Manly

29A, B. **English Metrical Romances.**—The first Quarter will be devoted to lectures and reports; the second to the investigation of problems. For Graduate students only. Permission of the instructor is necessary for admission to this course.

2Mj. Autumn and Winter Quarters
Wed., 4:00–6:00
Professor Manly

30. **Comparative Grammar of Old English.**—A lecture course on the sounds and the inflections of Old English, intended not only for students of the English language but also for students of general comparative philology, in particular those giving

special attention to the Teutonic group. For Graduate students only.

ASSOCIATE PROFESSOR BLACKBURN

[Not to be given in 1907–8]

31. **Introduction to the Science of Language.**—The purpose of the course is to give students some conception of the aims and methods of modern philological study; to acquaint them with the large results of linguistic science and the relations of these to the general history of civilization; and to arouse interest in all questions of the life and growth of human speech. No special linguistic training is necessary for admission to the course.

Mj. Spring Quarter; 3:00

PROFESSOR MANLY

33. **English Grammar.**—For teachers.

M. First Term, Summer Quarter; 1:30

ASSOCIATE PROFESSOR TOLMAN

34. **The History of the English Language.**—Open to students who have taken English 21 and 28.

[Not to be given in 1907–8]

35A, B, C. **English Language Seminar.**—For investigation and special study of linguistic problems. Students are admitted only by permission of the instructor. For Graduate students only.

3M. Autumn, Winter and Spring Quarters Hours to be arranged with the instructor.

ASSOCIATE PROFESSOR BLACKBURN

36. **The History of Old English Literature.**—Lectures on English Literature from the date of the earliest remains to the Norman Conquest.

Mj. Autumn Quarter; 3:00

ASSOCIATE PROFESSOR BLACKBURN

37A, B. **Chaucer.**—Rapid reading and discussion of his works. Primarily for Graduate students. English 28, or its equivalent, is required for admission to this course. 2Mj

PROFESSOR MANLY

[Not to be given in 1907–8]

COURSES IN MODERN ENGLISH LITERATURE

Courses 42-48 cover with some minuteness the history of English literature from the beginning of the modern period down to the present time. They need not be taken in chronological order.

42. **English Literature, 1557–99.**

Mj. Autumn Quarter; 11:00

ASSOCIATE PROFESSOR TOLMAN

43. **English Literature, 1599–1660.**

M. First Term, Summer Quarter; 10:30

ASSOCIATE PROFESSOR LOVETT

Mj. Winter Quarter; 11:00

ASSOCIATE PROFESSOR TOLMAN

44. **English Literature, 1660–1744.**

Mj. Spring Quarter; 8:30

PROFESSOR MACCLINTOCK

46. **English Literature, 1744–98.**

Mj. Autumn Quarter; 8:30

PROFESSOR MACCLINTOCK

47. **English Literature, 1798–1832.**

Winter Quarter; 11:00

ASSOCIATE PROFESSOR LOVETT

48. **English Literature, 1832–92.**

Mj. Summer Quarter; 11:30

PROFESSOR DAMON

Mj. Spring Quarter; 11:00

ASSOCIATE PROFESSOR TOLMAN

50. **Studies in the Literature of the Elizabethan Period, 1550–1650.**—For Graduate students only. Prerequisite: *English 42, 43, or 85, or their equivalents.*

ASSOCIATE PROFESSOR CARPENTER

[Not to be given in 1907–8]

51. **The Beginnings of the Renaissance and the Reformation in England.**—Lectures on the main currents of literature and civilization in England from the introduction of printing to the accession of Elizabeth; with discussion of the texts in Flügel's *Neuenglisches Lesebuch.* For Graduate students only.

PROFESSOR MANLY

[Not to be given in 1907–8]

52. **Studies in the Literature of the Seventeenth Century.**—The topic for 1907–8 will be the Drama. Students who have taken the course when another topic was dealt with are not debarred from taking it again. For Graduate students only. Prerequisite: *English 43 and 85.*

Mj. Autumn Quarter; Tu. and Th., 4:00–6:00

ASSOCIATE PROFESSOR CARPENTER

54. **Studies in the English Heroic Play.**—For Graduate students only.

Mj. Summer Quarter; Tu. and Th., 3:30–5:30

ASSOCIATE PROFESSOR REYNOLDS

57. **Studies in the Literature of the Classical Period.**—For Graduate students only.

Mj. Autumn Quarter; Mon. and Wed. 4:00–6:00

ASSOCIATE PROFESSOR REYNOLDS

58. **Studies in the Beginnings of the Romantic Movement.**—For Graduate students only.

Mj. Autumn Quarter; Tu. and Th., 4:00–6:00

PROFESSOR MACCLINTOCK

59. **Studies in the Literature of the Romantic Period.** For Graduate students only.
PROFESSOR MACCLINTOCK
[Not to be given in 1907–8]

62. **The Oxford Movement and English Literature.**
[Not to be given in 1907–8]

69. **The Life and Works of Spenser.**—This course is intended primarily for Graduate students, but Senior College students who have passed with credit in English 42 will be admitted.
[Not to be given in 1907–8]

70A, B. **Shakspere.**—A study of all the plays.
2Mj. Autumn and Winter Quarters; 9:30
ASSOCIATE PROFESSOR TOLMAN

71. **Shakspere.**—*Othello and Macbeth.* For students in the Senior Colleges and the Graduate School.
ASSOCIATE PROFESSOR TOLMAN
[Not to be given in 1907–8]

72. **Shakspere's Comedies.**—Primarily for Senior College students, but may be counted for graduate credit. Mj
PROFESSOR MACCLINTOCK
[Not to be given in 1907–8]

73. **Problems in Shakspere.**
ASSOCIATE PROFESSOR TOLMAN
[Not to be given in 1907–8]

74. **Ben Jonson.**—For students in the Senior Colleges and the Graduate School.
M. First Term, Summer Quarter; 2:30
ASSOCIATE PROFESSOR TOLMAN

75. **Milton.**—For Senior College and Graduate students.
M. Second Term, Summer Quarter; 10:30
ASSOCIATE PROFESSOR LOVETT

76. **Wordsworth and the English Romantic Movement.**—For Graduate students only.
Mj. Spring Quarter; Tu. and Th., 4:00–6:00
PROFESSOR MACCLINTOCK

77. **The Critical Writings of Coleridge.**
PROFESSOR MACCLINTOCK
[Not to be given in 1907–8]

78. **The Writings of Oliver Goldsmith.**—For Graduate students only. Prerequisite: *English 46.*
Mj. Winter Quarter; Tu. and Th., 4:00–6:00
PROFESSOR MACCLINTOCK

80. **English Literature for Teachers.**—A study of typical masterpieces, with special reference to the selection of texts and the aims and methods of teaching literature.
Mj. Summer Quarter; 8:00
ASSOCIATE PROFESSOR REYNOLDS

82. **The Pre-Shaksperean Drama.**—Primarily for Graduate students. Mj
[Not to be given in 1907–8]

83A, B. **The Mediæval Drama.**—The origins and the development of the mediæval forms of the drama; in the second half of the course Miracle Plays, Mysteries, Moralities, and Interludes will be discussed in detail. For Graduate students only. 2Mj
PROFESSOR MANLY
[Not to be given in 1907–8]

84. **The Drama in England from 1500 to 1600.**—A study of the forms of the drama in England at the beginning of the Renaissance; of the influences which shaped the Elizabethan drama; and of dramatic history in the period designated. Mj
ASSOCIATE PROFESSOR TOLMAN
[Not to be given in 1907–8]

85. **The Drama in England from 1600 to 1642.**
Mj. Spring Quarter; 12:00
PROFESSOR HERRICK

86. **The Drama in the Nineteenth Century.**
ASSOCIATE PROFESSOR LOVETT
[Not to be given in 1907–8]

87. **The History of the Novel in England.**—For students in the Senior Colleges and the Graduate School. Mj. Summer Quarter; 9:00
ASSISTANT PROFESSOR LINN

88. **The Technique of the Modern Novel.**—Representative English, French, Russian, and Spanish novels will be studied with special reference to structure and technique. Ability to read French is desirable but not absolutely necessary for the course.
Mj. Winter Quarter; 12:00
PROFESSOR HERRICK

89. **Studies in Eighteenth-Century Comedy.** For Graduate students only.
Mj. Winter Quarter; Mon. and Wed., 4:00–600
ASSOCIATE PROFESSOR REYNOLDS

90. **The Development of the Literary Essay in England.**—For students in the Senior Colleges and the Graduate School.
PROFESSOR MACCLINTOCK
[Not to be given in 1907–8]

91. **Ballad and Epic Poetry.**—The English ballads will be studied in the complete collection of Child and Kittredge. *Beowulf* and the *Iliad* will be

read in translation; other famous epics will be treated in lectures.

ASSOCIATE PROFESSOR TOLMAN

[Not to be given in 1907–8]

102. **The History of English Criticism.**

PROFESSOR MACCLINTOCK

[Not to be given in 1907–8]

103. **English Versification.** — A discussion of metrical and rhythmical theories and a historical account of English verse.

Mj. Autumn Quarter; 3:00

ASSOCIATE PROFESSOR CARPENTER

130. **The Pre-Raphaelite Movement.**—For students in the Senior Colleges and the Graduate School.

Mj. Winter Quarter; 8:30

PROFESSOR MACCLINTOCK

150. **The Bibliography of English Literature.**—For Graduate students only.

ASSOCIATE PROFESSOR CARPENTER

[Not to be given in 1907–8]

160. **American Literature.**—A general survey. Primarily for Senior College Students, but may be counted for Graduate credit.

Mj. Winter Quarter; 9:30

MR. BOYNTON

161. **Studies in American Literature.**—The Trancendental Movement. Primarily for Graduate students. Mj. Spring Quarter; 11:00

MR. BOYNTON

XVI. THE DEPARTMENT OF GENERAL LITERATURE

OFFICERS OF INSTRUCTION

A. INSTRUCTOR ATTACHED TO THE DEPARTMENT OF GENERAL LITERATURE

RICHARD GREEN MOULTON, PH.D., *Professor of Literary Theory and Interpretation and Head of the Department of General Literature.*

B. INSTRUCTORS IN OTHER DEPARTMENTS OFFERING COURSES IN THIS DEPARTMENT

JAMES HAYDEN TUFTS, PH.D., LL.D., *of the Department of Philosophy.*
IRA MAURICE PRICE, PH.D., LL.D., *of the Department of Semitic Lauguages and Literatures.*
HERBERT LOCKWOOD WILLETT, PH.D., *of the Department of Semitic Languages and Literatures.*
JOHN MERLIN POWIS SMITH, PH.D., *of the Department of Semitic Lauguages and Literatures.*
ERNEST DEWITT BURTON, D.D., *of the Department of Biblical and Patristic Greek.*
CLYDE WEBER VOTAW, D.B., PH.D., *of the Department of Biblical and Patristic Greek.*
EDGAR JOHNSON GOODSPEED, D.B., PH.D., *of the Department of Biblical and Patristic Greek.*
PAUL SHOREY, PH.D., *of the Department of the Greek Language and Literature.*
FRANK JUSTUS MILLER, PH.D., *of the Department of the Latin Language and Literature.*
ELIZABETH WALLACE, S.B., *of the Department of Romance Languages and Literatures.*
MARTIN SCHÜTZE, PH.D., *of the Department of Germanic Languages and Literatures.*
JOHN MATTHEWS MANLY, PH.D., *of the Department of English.*
WILLIAM DARNALL MACCLINTOCK, A.M., *of the Department of English.*
ROBERT HERRICK, A.B., *of the Department of English.*
MYRA REYNOLDS, PH.D., *of the Department of English.*
RORERT MORSS LOVETT, A.B., *of the Department of English.*

INTRODUCTORY

The Heads and acting Heads of Departments VIII–XVI compose the Committee of Management for Department XVI.

The Department of General Literature, formerly known as the Department of Literature (in English), has for its theoretic basis the unity of all literature. The purpose of the Department is, by its own courses and by co-operation with Departments VIII–XV, to afford facilities for the study of literature not limited by the divisions between particular languages and peoples.

The courses of the Department are open to students of the Senior Colleges, and to the Graduate School of Arts and Literature. They are designed for two different classes of students: (1) those whose main work is

remote from Literature, but who may desire some literary culture as an element of liberal education; (2) those who, whether in their Senior College or their Graduate work, desire to specialize in Literature. [Particular courses in Biblical Literature, where it is so specified, but no others, are open to students of the Junior Colleges who have completed twelve majors.]

The work of the Department falls into three sections: (*A*) The Theory of Literature, including Literary Interpretation and Literary Criticism. For purposes of practical education it is believed to be impossible without the use of literature in translation to obtain a sufficiently wide induction from literary phenomena to make studies like these scientific. In this section knowledge of the original languages of the literatures concerned may or may not be assumed. (*B*) Comparative Literature, as the term is generally understood. The work of this section will assume knowledge of the original languages of the principal literatures concerned. (*C*) General Literature (irrespective of divisions between particular languages), treated as a part of general culture rather than specialized study. In this section no knowledge will be assumed of any language other than English.

For Senior College courses no knowledge is assumed of any language other than English. They are designed for students who may desire, at this stage of their education, to gain an intelligent appreciation of the great landmarks of world-literature, acquaintance with which is an essential of liberal education alike for those whose main interests are, and those whose main interests are not, literary. In each period of two years there will usually be offered courses in such subjects as The (English) Bible, Homer and Virgil, The Ancient Classical Drama, Dante, Shakspere, Goethe's *Faust*. In addition there will be a course (No. 1) designed as an introduction to general reading (so far as such reading is in literature), and usually a course in some literary topic of special interest at the present day. The courses can be taken singly; but eight such courses would make a convenient curriculum in General Literature.

While any of the Graduate courses offered in this Department can be taken by itself, special provision is made for students desiring to specialize in General Literature for the A.M. degree. The requirements as to the higher degrees are as follows:

1. Graduate students offering work in this Department for the A.M. (specialist) degree, or as the single secondary subject for the degree of Ph.D., or as the principal subject for the degree of Ph.D., will be required to take courses in Biblical Literature and in Greek-Roman Literature, unless the Department is satisfied that adequate work in these studies has been done by the candidate previously.

2. Graduate students offering work in this Department for the A.M. (specialist) degree must take not less than three and not more than four majors in Section A, of which Course 40 (or its equivalent) must be one.

3. Graduate students offering work in this Department as the single secondary subject for the degree of Ph.D. must take (*a*) at least two majors in Section B, (*b*) not less than three and not more than four majors in Section A, of which Course 40 (or its equivalent) must be one.

4. Graduate students offering work in this Department as the principal subject for the degree of Ph.D. must take at least one-half of their work in Section B, this work involving knowledge of the languages of the principal literatures concerned. They will also be required to take Course 40 (or its equivalent), and two more majors in Section A. [It is not found practicable at present to offer sufficient courses in Section B to render work in this Department available as principal subject for the degree of Ph.D.]

Department XVI being in its nature supplementary to the other language and literature departments (VIII–XV), it will often happen that particular courses in those departments can be substituted for, or used to supplement, courses in General Literature. This is especially the case in regard to Section B.

COURSES OF INSTRUCTION

40B. Literary Criticism and Theory of Interpretation. This will be a modification of the course usually given as XVI, 40. It will deal with the general treatment of literature determined by its recognition as an independent study, but with special reference to literary criticism.

Mj. Autumn Quarter; 11:00
PROFESSOR MOULTON

47. Aesthetics.—See I, 7. Mj. Spring Quarter
PROFESSOR TUFTS

29A, B. English Metrical Romances.—See XV, 29A, B.
2Mj. Autumn and Winter Quarters
Wed., 4:00–6:00
PROFESSOR MANLY

88. The Technique of the Modern Novel.—Represen-

tative English, French, Russian, and Spanish novels will be studied with special reference to structure and technique. Ability to read French is desirable, but not absolutely necessary for the course. Mj. Winter Quarter; 12:00
PROFESSOR HERRICK

B. COMPARATIVE LITERATURE

45. **The Influence of Classical Mythology on English Poetry.**—The myths themselves will be studied from all the more available sources, with Ovid's *Metamorphoses* as the main source. Representative English poets will then be examined in order to determine the extent and method of their use of classical mythology.—See XII, 45.
Mj. Summer Quarter; 9:00
ASSOCIATE PROFESSOR MILLER

70. **History of Virgilian Interpretation.**—The ancient, mediæval, and modern masters of Virgilian interpretation and criticism will be studied, and their attitude and method noted. Of the modern students of Virgil, especial attention will be given to the English, French, and German schools.—See XII, 70.
Mj. Spring Quarter; 11:00
ASSOCIATE PROFESSOR MILLER

95. **The Contemporary Drama.**—Studies of dramatic literature in Europe and America at the present day, with special reference to the treatment of social problems, and the development of dramatic technique. Ibsen, Strindberg, Sudermann, Hauptmann, Maeterlinck, D'Annunzio, Galdos, Benavente, Shaw, Pinero, and others will be considered. Mj. Autumn Quarter; 3:00
MESSRS. LOVETT AND SCHÜTZE, AND MISS WALLACE

Prerequisite: *A fair reading knowledge of French and German, except for students not expecting University credit.*

C. GENERAL LITERATURE

NOTE.—Courses described above as 29A, B and 88 may be reckoned either under Section C or Section A. Courses 45, 70, 95 may be reckoned either under Section B or Section C. Attention is also called to courses in other departments, such as XIII, 25, 66; XIV, 160, 163, 179, 206.

64. **The Psalter (in English).**—See XLI, 64.
M. First Term, Summer Quarter
ASSISTANT PROFESSOR WILLETT

65. **The Book of Job.**—See XLI, 65.
M. Second Term, Summer Quarter
ASSISTANT PROFESSOR WILLETT

69. **The Problem of Suffering in the Old Testament.**—See XLI, 69. ¼ or ½ Mj. Summer Quarter
DR. SMITH

71. **Isaiah and Micah.**—See XLI, 71.
¼ or ½ Mj. Autumn Quarter
PROFESSOR PRICE

72. **Jeremiah.**—See XLI, 72.
¼ or ½ Mj. Winter Quarter
PROFESSOR PRICE

74. **Biblical Apocalyptic.**—See XLI, 74.
Mj. Winter Quarter
ASSISTANT PROFESSOR WILLETT

75. **The Development of Hebrew Literature.**—See XLI, 75. Mj. Summer and Autumn Quarters
ASSISTANT PROFESSOR WILLETT

76. **The Literature of the Prophets.**—See XLI, 76.
Mj. Winter Quarter
ASSISTANT PROFESSOR WILLETT

103. **Introduction to the Books of the New Testament.**—See XLII, 3. Mj. Spring Quarter
PROFESSOR BURTON

116. **Introduction to the Synoptic Gospels.**—See XLII, 16. Mj. Spring Quarter
ASSISTANT PROFESSOR GOODSPEED

120. **The Parables of Jesus.**—See XLII, 20.
M. Second Term, Summer Quarter
ASSISTANT PROFESSOR VOTAW

137A. **The Epistle to the Hebrews.**—See XLII, 37A.
M. First Term, Summer Quarter
ASSISTANT PROFESSOR GOODSPEED

189. **Studies in Eighteenth-Century Comedy.**—For Graduate students only. See XV, 89.
Mj. Winter Quarter; 3:00
ASSOCIATE PROFESSOR REYNOLDS

*3. **Homer and Virgil for English Readers.**
Mj. Spring Quarter; 9:30
PROFESSOR MOULTON

*7. **The Story of Faust.**—Goethe's *Faust* (in English) in comparison with the treatment of the same story in English and Spanish literatures and in music. Mj. Spring Quarter; 11:00
PROFESSOR MOULTON

*These are primarily Senior College courses; special work will be set for those using them as Graduate courses.

XVII. THE DEPARTMENT OF MATHEMATICS

OFFICERS OF INSTRUCTION

ELIAKIM HASTINGS MOORE, Ph.D., LL.D., *Professor and Head of the Department of Mathematics.*
OSKAR BOLZA, Ph.D., *Professor of Mathematics.*
HEINRICH MASCHKE, Ph.D., *Professor of Mathematics.*
LEONARD EUGENE DICKSON, Ph.D., *Associate Professor of Mathematics.*
WILLIAM HOOVER, Ph.D., *Non-Resident University Extension Assistant Professor of Mathematics.*
HERBERT ELLSWORTH SLAUGHT, Ph.D., *Assistant Professor of Mathematics.*
JACOB WILLIAM ALBERT YOUNG, Ph.D., *Assistant Professor of the Pedagogy of Mathematics.*
ARTHUR CONSTANT LUNN, Ph.D., *Instructor in Applied Mathematics.*
NELS JOHANN LENNES, S.M., *Instructor in Mathematics, Wendell Phillips High School, Chicago* (Summer Quarter, 1907)

GEORGE WILLIAM MYERS, Ph.D., *Professor of the Teaching of Mathematics and Astronomy, the School of Education.*

FELLOWS, 1906-7

GEORGE DAVID BIRKHOFF, A.B., A.M. LOUIS INGOLD, A.B., A.M.
HARRIS FRANKLIN MacNEISH, S.B., S.M.

INTRODUCTORY

The following courses introductory to the higher Mathematics are intended for students making Mathematics their principal subject, and partly also for those making Mathematics their secondary subject, in particular for students of Astronomy and Physics:

(*A*) †*Differential and integral calculus* (*3Mj*).
(*B*) †*Solid analytics and determinants; algebraic analysis.*
(*C*) †*Analytic mechanics* (*2Mj*); *theoretical mechanics, vector analysis, theory of the potential.*
(*D*) †*Advanced calculus, including differential equations, definite integrals, Fourier series, elements of elliptic integrals* (*3Mj*); *elements of the theory of functions.*
(*E*) *Synthetic projective geometry; analytic projective geometry; differential geometry* (*2Mj*).
(*F*) *Theory of numbers; theory of invariants; selected chapters of algebra; theory of substitutions with applications to algebraic equations; quaternions.*

Groups (*A*)-(*F*) indicate constituents of six sequences of courses running through the usual academic year from October to June. These sequences vary slightly from year to year, the courses marked with a dagger (†) being given annually, and the other courses being given usually once in two years. Special emphasis will be laid upon the application of Calculus to the solution of analytical, geometrical, and mechanical problems.

The undergraduate student who wishes to specialize in Mathematics should take (*A*) as Junior College Elective, (*B*) in his first Senior College year, and (*C*) and (*D*) in his second Senior College year.

Candidates for the specialist Master's degree in Mathematics are expected to offer for examination the subjects covered by the courses of groups (*A*)-(*D*), and two majors selected from (*E*)-(*F*), or the equivalents of these subjects, and to present a satisfactory thesis on an assigned topic closely related to one of these subjects.

Candidates for the Doctor's degree with Mathematics as secondary subject are expected to offer for examination the subjects covered by the courses of groups (*A*)-(*D*), or the equivalents of these subjects.

The initial and special courses in the higher Mathematics are intended to give the Graduate student a comprehensive view of modern Mathematics, to develop him to scientific maturity, and to enable him to follow, without further guidance, the scientific movement of the day, and, if possible, to take an active part in it by creative research. The special courses and the research Seminars vary from year to year; they may be classified in general terms as relating to (*a*) *Algebra and Arithmetic;* (*b*) *Analysis;* (*c*) *Geometry;* (*d*)

Mechanics and Applied Mathematics; (*e*) *the Foundations and Interrelations of the Mathematical Disciplines as purely abstract deductive systems.* Attention is called to courses of type (*d*) offered by the Departments of Astronomy and Physics.

Candidates for the Doctor's degree with Mathematics as principal subject are expected to present a dissertation, in finished form, embodying valuable results of mathematical inquiry, and to offer for examination the subjects covered by fifteen majors of initial courses of groups (*A*)-(*F*), and by a considerable body of special courses, in each case presumably most closely related to the subject of the candidate's dissertation.

Courses in the history and the teaching of Elementary Mathematics — Arithmetic, Algebra, Geometry, Trigonometry, Analytic Geometry, Calculus, Mechanics — are offered by this Department and the School of Education. These courses embody the conviction that elementary students need to have their mathematics made, not easier, but more perfectly intelligible and attractive, and to this end that teachers should more generally appreciate and utilize in instruction the unity of mathematics, as made up of various most closely interrelated disciplines, and the character of mathematics, as an ideal science developed by abstraction from various more concrete domains, and appealing to the general student by the beauty and completeness of its logical structure, and equally by its richness of applicability in the arts and natural sciences.

Students of Mathematics should understand that the proper arrangement of their course of study in Mathematics is a matter of extreme importance. The best arrangement for a particular student is apt to depend on his previous mathematical career, and can be determined often only by conference between the student and a member of the staff of the Department. The members of the staff are at all times ready to arrange for such conferences.

The courses of the Summer Quarter are designed to meet the needs of those college men and others wishing to study advanced Mathematics, who are able to spend only the summer in residence. The courses of a series of four summer quarters will be arranged so as to give a wide view of modern Mathematics.

The attention of any student wishing the guidance of the Department in his continuation of the work done in the summer is called to the correspondence courses of the Department, which are given under the auspices of the University Extension Division of the University.

To students in Mathematics are usually assigned three Fellowships. These Fellowships are assigned to those students excelling in their mathematical acquisitions and scholarly abilities who exhibit strongest evidences of marked creative ability in Mathematics. It is a distinct advantage to candidates to have been at least one year in residence at the University. Candidates should file with the President of the University (on application blanks to be secured from the President's Secretary) records of their previous work and distinctions, degrees, and past courses of study, with copies of their written or printed work in Mathematics. Applications should be filed before March 1 of each year. The appointments are made during the first week of April.

Fellows agree not to give private tuition, and may be called upon for assistance in any departmental teaching or other work; in no case, however, will a Fellow be expected or permitted to devote more than one-sixth of his time to such service.

Senior College Scholarship.— This Scholarship is awarded annually at the Summer Convocation to that student admitted to the Senior College during the preceding year who did the best Junior College work in Mathematics. In judging of the work of each candidate for this Scholarship, the Department considers (*a*) the quality of his Junior College work in general; (*b*) the quantity and the quality of his Junior College work in Mathematics; (*c*) the results of the Senior College Scholarship Examination on the subjects: *Trigonometry, College Algebra, and Analytical Geometry.*

Graduate Scholarship.—This Scholarship is awarded annually at the Summer Convocation to that student admitted to the Ogden Graduate School during the preceding year who has been named by the Department as the Senior College honor student in Mathematics. In judging of the work of each candidate for this Scholarship, the Department considers (*a*) the quantity and the quality of his Senior College work in Mathematics; (*b*) the results of the Graduate Scholarship Examination on the subjects: *Differential and Integral Calculus, Solid Analytics and Determinants, Algebraic Analysis, and Advanced Calculus;* (*c*) his promise of success as a Graduate student of Mathematics.

Scholarship Examinations.—The Senior College Scholarship Examination and the Graduate Scholarship Examination are held every Spring Quarter at times and places duly announced in the *Weekly Calendar* or

the *University Record*. Prospective candidates should confer with the Departmental Examiner. Files of papers set at previous Scholarship Examinations are accessible in the Departmental Library.

Library.—The Mathematical Library occupies Room 37 of the Ryerson Physical Laboratory, adjacent to the lecture-rooms of the Department, and is open for the use of Graduate students from 8:30 A. M. to 6:00 P. M. The library contains the more important mathematical periodicals, collected works, treatises, and textbooks.

Models.—A collection of Brill's models: plaster and thread models of quadric surfaces, plaster models of cubic and Kummer's quartic surfaces, models of cyclides and surfaces of constant positive and negative curvature, and thread models of three-dimensional projections of four-dimensional regular bodies.

COURSES OF INSTRUCTION

3. **Analytic Geometry.**—Elements of plane analytics, including the geometry of the conic sections, with an introduction to solid analytics. Prerequisites: *Trigonometry and College Algebra.*

Mj. Summer Quarter; 7:00
MR. LENNES
Mj. Autumn Quarter; 9:30
DR. LUNN
Mj. Winter Quarter; 12:00
ASSISTANT PROFESSOR YOUNG
Mj. Spring Quarter; 9:30
ASSISTANT PROFESSOR SLAUGHT

6. **Spherical Trigonometry and Introduction to Surveying.**

Mj. Winter Quarter; 12:00
ASSISTANT PROFESSOR LAVES

Prerequisite: *Course 1.*

7. **Elementary Mechanics.**—Without the use of Calculus. Mj. Spring Quarter; 12:00
PROFESSOR MEYERS

Prerequisite: *Course 1.*

15. **Introductory Calculus.**—The elementary fundamental principles, methods, and formulas of differential and integral Calculus will be carefully studied in connection with simple problems of geometry and the physical sciences.

Mj. Spring Quarter; 12:00
ASSISTANT PROFESSOR YOUNG

Prerequisite: *Trigonometry, College Algebra,* and of *Analytic Geometry* at least an elementary knowledge of graphing.

18, 19, 20. **Calculus, I, II, III.**—The fundamental principles and processes of the differential and integral Calculus, with much use of graphical methods and with much attention to the solving of problems illustrating all phases of the theory and certain important applications to geometry, and mechanics and physics.

Three consecutive Majors, Autumn, Winter, and Spring Quarters; 8:30.
ASSISTANT PROFESSOR SLAUGHT

Prerequisite: *Courses 1, 2, 3; Course 3* may be taken simultaneously with *Course 18.*

26. **Curve Tracing and Differential Calculus.**—A graphic study of rational algebraic functions and of certain simple irrational transcendental functions, yielding material for a geometric introduction to the fundamental notions and processes of the calculus.

Mj. Summer Quarter; 9:00
DR. LUNN

Prerequisite: *Plane Trigonometry.*

27. **Integral Calculus.**—An elementary course with much practice in connection with applications to problems of Geometry, Analysis, and Physics.

Mj. Summer Quarter; 8:00
ASSISTANT PROFESSOR SLAUGHT

Prerequisite: *Differential Calculus.*

[ASTRONOMY 5, 6] **Analytic Mechanics I, II.**

2 Mj. Autumn and Winter Quarters; 9:30
ASSISTANT PROFESSOR LAVES

31. **Solid Analytics and Determinants.**

Mj. Summer Quarter; 10:30
ASSOCIATE PROFESSOR DICKSON
Mj. Winter Quarter; 12:00
PROFESSOR MASCHKE

Prerequisite: *Plane Analytics and Calculus.*

32. **Algebraic Analysis.**—The complex number system (of ordinary Algebra). Roots of unity. Theory of equations. Infinite series.

Mj. Spring Quarter; 12:00
PROFESSOR MASCHKE

Prerequisite: *Plane Analytics and Differential Calculus.*

37, 38, 39. **Advanced Calculus: I, II, III.**—The fundamental principles and processes of the Calculus, including the theory of definite integrals, and differential equations, developed in organic relation with problems of Geometry, Mechanics, and Physics.

Three consecutive Majors, Autumn, Winter, and Spring Quarters; 11:00.
PROFESSOR BOLZA

Prerequisite: *Differential and Integral Calculus.*

45. **Critical Review of Secondary Mathematics (for Teachers).**—A brief survey of the subject-matter of Secondary Mathematics as seen in the light of modern mathematics, aiming both to organize the theory of the whole scientifically and to gather the products of this work for use in teaching. Mj. Summer Quarter; 8:00
MR. LENNES

Prerequisite: *Working Knowledge of Secondary Mathematics.*

46. **Graphical Methods in Algebra: Especially for Teachers.**—The cross section paper as a mathematical instrument.
½M. First Term, Summer Quarter
PROFESSOR MOORE

Prerequisite: *Working Knowledge of Secondary Mathematics.*

47. **History of Mathematics.**
Mj. Winter Quarter; 11:00
PROFESSOR MYERS

GRADUATE COURSES

65A, B, C, D. **Reading and Research in Pure Mathematics.**—When in the judgment of the Department it is advisable that students undertake definite mathematical reading and research not closely connected with any current lecture course or Seminar, this work will be directed by one or other of
PROFESSORS MOORE, BOLZA, MASCHKE, DICKSON

66A, B, C, D. **Reading and Research in Applied Mathematics.**—Advisable reading and research will be directed by one or other of
PROFESSORS MOORE, MASCHKE, MYERS, DR. LUNN

71. **Theory of Numbers.**—Elements of the theory of numbers; introduction to the theory of algebraic numbers; finite and infinite groups; finite and infinite fields.
Mj. Autumn Quarter; 8:30
ASSISTANT PROFESSOR YOUNG

81, 82. **Finite Groups with Applications I, II.**—Substitution groups in connection with the theory of algebraic equations; abstract groups; linear congruence and collineation groups; rotation groups and the simpler of Klein's two treatments of equations of the fifth degree. Seminar discussion of recent results, in particular those of Frobenius.
2Mj. Winter and Spring Quarters; 8:30
ASSOCIATE PROFESSOR DICKSON

Prerequisite: *Theory of Numbers.*

84. **Continuous Groups and Differential Equations.**—An illumination of the fundamental concepts and theorems of the Lie theory in connection with various classes of problems of geometry and differential equations.
Mj. Summer Quarter; 11:30
ASSOCIATE PROFESSOR DICKSON

91. **General Theory of Determinants.**—With applications to algebra and to geometry, and with an introduction to the theories of matrices, linear substitutions, and bilinear and quadratic forms.
M. First Term, Summer Quarter; 1:30
PROFESSOR MOORE

Prerequisite: *Elements of the Theory of Determinants.*

94. **Theory of Invariants.**—The theory of binary quantics ("modern higher algebra") with applications to the theory of equations and to geometry.
PROFESSOR BOLZA

Prerequisite: *Theory of Equations and Advanced Calculus.*

[Not to be given in 1907–8]

97. **Algebraic Numbers and Forms.**—An introduction to the theory in the spirit of Kronecker; application to the Galois theory of algebraic equations. Based on J. König's *Einleitung in die allgemeine Theorie der algebraischen Grössen* (Leipzig: Teubner, 1903).
ASSOCIATE PROFESSOR DICKSON

Prerequisite: *Theory of Functions I, Theory of Numbers.*

[Not to be given in 1907–8]

111. **Theory of Functions of Real Variables.**—An elementary course, with applications to the Calculus of Variations.
PROFESSOR BOLZA

[Not to be given in 1907–8]

113. **Selected Chapters in Analysis.**—In particular, on linear functional operations.
Mj. Autumn Quarter; 2:00
PROFESSOR MOORE

118, 119, 120. **Calculus of Variations, I, II, III.**—An advanced course on the theory of maxima and minima of definite integrals, with numerous applications to problems of geometry and mechanics.
½Mj. Autumn and Winter Quarters; 9:30
Mj. Spring Quarter; 9:30
PROFESSOR BOLZA

Prerequisite: *Advanced Calculus I, II, III.*

121, 122. **Theory of Functions of a Complex Variable.** An introductory course: Geometrical representation of complex quantities, conformal representation, Cauchy's theory, examples of Riemann surfaces. Prerequisite: *Advanced Calculus I, II, III.* ½Mj. Autumn Quarter; 9:30
½Mj. Winter Quarter; 11:00
PROFESSOR BOLZA

121. **Theory of Functions of a Complex Variable.** Mj. Summer Quarter; 9:00
PROFESSOR BOLZA

122. **Exercises on the Theory of Functions.**—Students present reports on problems illustrating various chapters of the theory of functions of a complex variable. Students who have taken or are taking an introductory course in that theory may advisably take this course.
½Mj. Summer Quarter; 10:30
PROFESSOR BOLZA

123. **Elliptic Functions.**—An advanced course with applications.
PROFESSOR BOLZA
PROFESSOR MASCHKE
Prerequisite: *Theory of Functions of a Complex Variable.*
[Not to be given in 1907-8]

125. **Abelian Functions.**—A survey of the principal problems, methods, and theorems of the theory of algebraic functions and their integrals.
½Mj. Summer Quarter; 10:30
PROFESSOR BOLZA
Prerequisite: *Theory of Functions of a Complex Variable.*

126. **Linear Differential Equations.**—The general theory with particular reference to differential equations of second order. Special study of the hypergeometric function.
PROFESSOR MASCHKE
Prerequisite: *Theory of Functions of a Complex Variable.*
[Not to be given in 1907-8]

128, 129. **Partial Differential Equations I, II.**—With applications to geometry and physics.
½Mj. Winter and Spring Quarters; 11:00
PROFESSOR MASCHKE
Prerequisite: *Advanced Calculus, I, II, III.*

131. **Synthetic Projective Geometry.**—An introductory course. Mj. Autumn Quarter; 12:00
PROFESSOR MASCHKE

141. **Modern Analytic Geometry.**—Homogeneous (trilinear) co-ordinates; projective properties of conics. PROFESSOR MASCHKE
[Not to be given in 1907-8]

142. **Higher Plane Curves.**—General properties of algebraic curves. Special study of the curves of the third and fourth order.
PROFESSOR MASCHKE
[Not to be given in 1907-8]

151, 152, 153. **Differential Geometry, I, II, III.**—Theory of twisted curves and surfaces; theory of invariants of differential quantics.
Mj. Autumn Quarter; 11:00
½Mj. Winter and Spring Quarters; 11:00
PROFESSOR MASCHKE
Prerequisite: *Advanced Calculus, I, II, III.*

161. **Vector Analysis.**—The elements of vector algebra, vector differentiation and integration, and the linear vector function; illustrated by typical applications to geometry, mechanics, and physics. DR. LUNN
Prerequisite: *Advanced Calculus, I.*
[Not to be given in 1907-8]

164. **Differential Equations of Dynamics.**—General theory of the differential equations of dynamics in the canonical forms of Lagrange and Hamilton. Mj. Spring Quarter; 12:00
DR. LUNN
Prerequisite: *Analytic Mechanics, I, II.*

166. **Dynamics of Oscillatory Systems.**—A detailed study of the free, damped, and forced oscillations of certain typical systems with one and two degrees of freedom, followed by an outline of the general theory for n degree of freedom and for continuous media; with special reference to the dynamical theories of sound and of light.
Mj. Summer Quarter; 8:00
DR. LUNN
Prerequisite: *Analytic Mechanics and Advanced Calculus.*

170. **Theory of the Potential.**—The partial differential equations of Mathematical Physics, with especial attention to the Potential. An advanced course.
PROFESSOR MASCHKE
Prerequisite: *Theory of Functions.*
[Not to be given in 1907-8]

181. **General Seminar.**—For the consideration of reports of current research and of literature, especially of a fundamental or critical nature.
M. First Term, Summer Quarter; Sat., 8:30-10:30
Mj. Autumn Quarter; Sat., 8:30-10:30
PROFESSOR MOORE

XVIII. THE DEPARTMENT OF ASTRONOMY AND ASTROPHYSICS

OFFICERS OF INSTRUCTION

EDWIN BRANT FROST, A.M., *Professor of Astrophysics, and Director of the Yerkes Observatory.*
SHERBURNE WESLEY BURNHAM, A.M., *Professor of Practical Astronomy, and Astronomer in the Yerkes Observatory.*
EDWARD EMERSON BARNARD, A.M., Sc.D., *Professor of Practical Astronomy, and Astronomer in the Yerkes Observatory.*
GEORGE ELLERY HALE, S.B., Sc.D., LL.D., *Non-Resident Professor of Astrophysics* (Mt. Wilson, Cal.).
KURT LAVES, A.M., Ph.D., *Assistant Professor of Astronomy.*
FOREST RAY MOULTON, A.B., Ph.D., *Assistant Professor of Astronomy.*
JOHN ADELBERT PARKHURST, S.M., *Instructor in Practical Astronomy at the Yerkes Observatory.*
STORRS BARROWS BARRETT, A.B., *Secretary and Librarian of the Yerkes Observatory.*
ROBERT JAMES WALLACE, *Photophysicist at the Yerkes Observatory.*
PHILIP FOX, S.B., *Instructor in Astrophysics at the Yerkes Observatory.*

FELLOWS, 1906-7

NAOZO ICHINOHE WILLIAM DUNCAN MacMILLAN

INTRODUCTORY

The work of the Department of Astronomy and Astrophysics naturally divides itself into two parts:

1. Work at the University, comprising: (*a*) elementary instruction in general Astronomy, both theoretical and practical; (*b*) preliminary training in the principles and methods of work underlying the science of Astrophysics, given in part in the undergraduate and graduate courses offered by the Department of Physics; (*c*) graduate and research work in Celestial Mechanics.

2. Graduate and research work in Practical Astronomy and Astrophysics in the Yerkes Observatory at Lake Geneva.

In the work at the University, given by Assistant Professors Laves and Moulton, special emphasis will be laid on the development of the mathematical methods and principles which lie at the basis of the physical sciences. In addition to the annual courses in Descriptive Astronomy, Introduction to Celestial Mechanics, and Analytical Mechanics, courses in the various branches of Celestial Mechanics will be given within periods not exceeding three years. The most fundamental subjects will be arranged in a cyclic manner so as to recur at regular intervals, while other more special topics will vary from time to time.

The general object of the instruction will be: (1) to furnish the student an adequate mathematical basis for successful work in Celestial Mechanics; (2) to give such experience and preliminary training in the work of observation and reduction; (3) to direct research work in Celestial Mechanics.

In the work at the Observatory, attention will be devoted both to the investigations of Practical Astronomy and to those of Astrophysics. The rapid development of the latter science within the last few years has been fully recognized and amply provided for in the design of the Observatory and in its instrumental equipment. The special laboratory facilities will render possible many astrophysical investigations which are necessarily neglected in other institutions. The Observatory will be open to those students only who have completed the necessary preliminary work at the University or its equivalent at other institutions.

Undergraduate students, in the S.B. course, who desire to specialize along the line of Astronomy, are recommended to take *six majors* in Mathematics, viz.: Differential and Integral Calculus 3; Solid Analytic Geometry 1; Advanced Integral Calculus 2; and *four majors* in Astronomy, viz.: Analytic Mechanics I and II, and Spherical and Practical Astronomy I and II.

Graduate students working for the Master's degree are recommended to choose *three majors* in the Department of Mathematics, viz.: Differential Equations, 1; Theory of Equations, 2; or in the Department of Physics, viz.: Advanced General Physics 3; and *six majors* in the Department of Astronomy.

Candidates for the degree of Doctor of Philosophy are expected to make their secondary subject either Mathematics or Physics. Students intending to specialize in the lines of Astrophysics will be required to take the work in Theoretical Physics, Advanced Experimental Physics, Sound and Light, and Physical Manipulation.

Graduate Scholarships, Fellowships, and Docentships, will be assigned in accordance with the general regulations of the University. Details regarding the appointment of Volunteer Research Assistants and Special Investigators at the Yerkes Observatory may be found in the *Annual Register* for 1906–7.

The Departmental Club meets fortnightly on Fridays at 4:00 P.M. in the Ryerson Physical Laboratory, Room 35, for the review of memoirs and books, and for the presentation of results of research. The Club is conducted by the members of the Faculties of Mathematics and Mathematical Astronomy. Graduate students of Mathematical Astronomy are expected to attend regularly and, so far as possible, to participate actively in the meetings of the Club.

The Department of Astronomy at the University occupies at present rooms on the third floor of the Ryerson Physical Laboratory. For the purpose of instruction in Practical Astronomy a Students' Observatory, consisting temporarily of two small buildings, has been provided west of the quadrangles.* It is equipped with a modern Warner and Swasey equatorial telescope of 6½-inches aperture, provided with a filar micrometer with position circle, a modern Bamberg transit instrument of 3 inches aperture, a Bamberg universal instrument, a Riefler sidereal clock, a chronometer, and various smaller accessories. The laboratory courses offered by the Department of Physics afford excellent preliminary training for the work in Astrophysics.

The Astronomical Library is open to Graduate students under the same conditions as the Mathematical Library, with which it is associated. The Astronomical Library includes many of the fundamental works on Astronomy, several sets of annals, and a number of journals.

A description of the Yerkes Observatory at Lake Geneva and its equipment will be found in the *Annual Register* for 1906–7. The publications of the Department are enumerated in the description of the Observatory.

COURSES OF INSTRUCTION

At the University

SENIOR COLLEGE COURSES (5–23)

5. **Analytic Mechanics, I.**—An introductory course.
Mj. Autumn Quarter; 9:30
ASSISTANT PROFESSOR LAVES
Prerequisite: *Differential and Integral Calculus.*

6. **Analytic Mechanics, II.**
Mj. Winter Quarter; 9:30
ASSISTANT PROFESSOR LAVES

8. **Spherical Trigonometry.**
½Mj. Winter Quarter; 11:00
ASSISTANT PROFESSOR LAVES

GRADUATE COURSES

22. **Introduction to Celestial Mechanics, I.**—Central forces; demonstration of law of gravitation, problem of two bodies; the ten integrals of planetary motion; considerations on perturbations; Helmholtz theory of the heat of the sun.
Mj. Winter Quarter; 8:30
ASSISTANT PROFESSOR MOULTON
Prerequisite: *Course 5.*

23. **Introduction to Celestial Mechanics, II** (Determination of Orbits and Special Perturbations).—Properties of conic section motion; determination of two geocentric distances from the observations; determination of elements, and methods of improving them; variations of elements; perturbations of rectangular and polar co-ordinates; numerical differentiation and integration.
Mj. Spring Quarter; 8:30
ASSISTANT PROFESSOR MOULTON

26. **Planetary Perturbations, I.**
Mj. Autumn Quarter; 9:30
ASSISTANT PROFESSOR MOULTON
Prerequisite: *Courses 22–23.*

27. **Planetary Perturbations, II.**
Mj. Winter Quarter; 9:30
ASSISTANT PROFESSOR MOULTON

At the Yerkes Observatory

In the work at the Yerkes Observatory the advanced student is made familiar with modern methods of research in various branches of Practical Astronomy and Astrophysics. In general, the work in progress during the year 1906–7 will probably include: researches in solar physics with the spectroscope, spectroheliograph, and photoheliograph; micrometric observations of double stars, planets, satellites, nebulæ, and comets; photographic studies of stellar spectra and determinations of motions in the line of sight; photography

*Room 1 of Ellis Hall serves as an office and computing room.

of star clusters, nebulæ, etc.; photographic investigations of stellar parallax; photometric observations; special astrophysical researches. The opportunity of taking part in these investigations is deemed of more advantage to the qualified student than set courses of instruction, but regular programmes of work, with courses of collateral reading, will be laid out as conditions may require. Graduate students wishing to take practical work at the Observatory should first consult the Director of the Yerkes Observatory, Williams Bay, Wis., and obtain his approval.

XIX. THE DEPARTMENT OF PHYSICS

OFFICERS OF INSTRUCTION

ALBERT ABRAHAM MICHELSON, Ph.D., Sc.D., LL.D., F.R.S., etc., *Professor and Head of the Department of Physics.*
CHARLES RIBORG MANN, Ph.D., *Associate Professor of Physics.*
ROBERT ANDREWS MILLIKAN, Ph.D., *Associate Professor of Physics.*
CARL KINSLEY, A.M., M.E., *Assistant Professor of Physics.*
HENRY GORDON GALE, Ph.D., *Assistant Professor of Physics.*
JOHN YIUBONG LEE, *Laboratory Inspector.*

FRED PEARSON, *Laboratory Assistant.*
ACHILLES DE KHOTINSKI, *Instrument Maker.*
JULIUS PEARSON, *Instrument Maker.*
RAYMOND W. WOOD, *Shop Assistant.*

FELLOWS, 1906-7

ERNEST FLAMMER, S.B.
JOHN SHARPLESS FOX, A.B.
LACHLAND GILCHRIST, A.B.
LAWRENCE EMORY GURNEY, A.B.

INTRODUCTORY

Within the last twenty years the teaching and practice of Physics has undergone a revolution more complete than that of any of its sister sciences. This result may be attributed, to a very great extent, to the enormous development of its applications to electrical industries. No other industrial application since the invention of the steam-engine has so enhanced the appreciation of the importance of exact knowledge, or given a greater impetus to the search for new truths in the unexplored regions on the borderland of science.

So closely interwoven are the advances in pure science and its applications that it is difficult to say which has been of greater service to the other, but it is evident that it is as ill-advised to ignore the powerful stimulus furnished by the practical development of scientific ideas as it is to belittle the influence which theoretical and experimental science have had on the world's material prosperity.

While it is never safe to affirm that the future of Physical Science has no marvels in store even more astonishing than those of the past, it seems probable that most of the grand underlying principles have been firmly established, and that further advances are to be sought chiefly in the rigorous application of these principles to all the phenomena which come under our notice.

It is here that the science of measurement shows its importance—where quantitative results are more to be desired than qualitative work. An eminent physicist has remarked that the future truths of Physical Science are to be looked for in the sixth place of decimals.

In order to make such work possible, the student and investigator must have at his disposal the methods and results of his predecessors, must know how to gauge them, and to apply them to his own work; and especially must he have at his command all the modern appliances and instruments of precision which constitute a well-equipped laboratory— without which results of real value can be obtained only at immense sacrifice of time and labor.

The science of Astronomy appeals far more powerfully to most people than does Physical Science, which, indeed, to many is scarcely known even by name. The former is as old as history. Its wonders have compelled

the attention of mankind from the earliest ages, and it is but a natural consequence that at the present day no important city in the civilized world is without a richly endowed observatory, where a trained corps of astronomers are able to study the phenomena of the life of suns and worlds, and their distribution in time and space.

It is only in very recent times that it has begun to dawn upon the mind of man that there is another world only one degree less complex and wonderful than the stellar universe — the world of molecules and atoms. For the study of these almost infinitesimal systems of pigmy stars we have no telescope nor even microscope to help us; but little by little we are constructing a powerful logical engine which is destined one day to bring the evolutions, rotations, and oscillations of these minute orbs as clearly to the mind's eye as are now the motions of the worlds of the greater, visible universe.

It may be said that this is, in fact, our chief problem—the constitution of matter; and while ultimately this is, and must always be, beyond the scope of our powers, it is as legitimate and worthy an object to extend our knowledge step by step in this direction as to increase our knowledge of the structure of the sidereal universe, even though this can never be completely fathomed.

In the enthusiasm which inevitably accompanies the work of the investigator, that of the instructor will not be ignored; indeed, it is confidently expected that these two functions will mutually assist each other.

The instructional work at the Ryerson Laboratory is directed toward the following ends:

(1) The training of original investigators in physics. (2) The training of men competent to fill college and university positions as teachers of physics. (3) The training of teachers of physics for the secondary schools. (4) The training of pre-engineering and pre-medical students for their later professional work. (5) The training of the general student in scientific methods of work and in the understanding of the place of physical science in the modern world. From the most elementary to the most advanced courses, the laboratory and the problem method of instruction are given especial emphasis.

Requirements for special degrees in physics.—All candidates for *the Ph.D. degree with physics as the major subject* must take the following courses: 3, 4, 5, 11, 12, 13, 15, 25, or their equivalents; 3 majors selected from courses 16, 17, 18, 37, 38, 39; courses 31–36 and three additional graduate lecture courses selected by the student. Each candidate must also present a thesis embodying the results of original research in some subject approved by the department. The time required for the thesis work generally varies from three to six quarters.

All candidates for *the Ph.D. degree with physics as a minor subject* must take courses 3, 4, and 5, and six majors selected from courses 11, 12, 13, 15, 16, 17, 18, 25, 31–36, 51, 52, 53, 57, and 59.

When physics is one of two minor subjects, the courses must be arranged by consultation with the department.

All candidates for *the master's degree in physics* are required to take 8 majors in physics and related subjects, and to present in addition a thesis embodying the results of a laboratory problem. All courses in the department programme corresponding to numbers higher than 11, excepting course 20, will be counted in satisfaction of this requirement.

All candidates for *the S.B. degree in physics* are required to take courses 3, 4, and 5, and either six majors selected from courses 11, 12, 13, 15, 16, 17, 18, 25, or three of these and three senior college courses in one of the following departments: Mathematics, Astronomy, Chemistry, Geology, and Geography. Pre-engineering students are required to take courses 3, 4, and 5. Pre-medical students are required to take courses 3 and 4.

Special facilities for work in physics.—The Ryerson Laboratory is planned with especial reference to offering the best possible facilities for research work, the entire lower floor being given up to private research rooms. A well-equipped shop, with skilled instrument makers, furnishes opportunity for the construction of special pieces of research apparatus. The equipment has been selected with reference to the needs of research, and includes spectroscopic instruments of highest power, electrical apparatus for work with alternating and direct current through all ranges of potential, and appliances for high and for low temperature work, including a liquid air plant.

The *library* of the department is very convenient and well-equipped for research purposes. It contains about three thousand volumes, including complete sets of all the standard physical journals. All important new books are added as soon as they appear.

A *physics club* is conducted by some member of the department, and meets fortnightly for the discussion of the results of research work done in the Ryerson Laboratory and elsewhere.

The University appoints each year in the Department of Physics a limited number of fellows and scholars who receive stipends varying from $120 to $520. See p. 13.

COURSES OF INSTRUCTION

SENIOR COLLEGE OR GRADUATE COURSES

11. **Heat and Molecular Physics.**—A lecture course for advanced and Graduate students, covering the Kinetic Theory, Capillarity, Elementary Thermodynamics, Solution, and Electrolysis.
Mj. Winter Quarter; 8:30
ASSOCIATE PROFESSOR MILLIKAN
Prerequisite: *General Physics, 3, 4, and 5.*

12. **Light.**—A lecture course for advanced and Graduate students covering the more important sections of geometrical and physical optics.
[Not to be given in 1907–8]

13. **Electricity and Magnetism.**—A course of advanced work in theoretical Electricity and Magnetism, intended to supplement the work in General Physics or prepare for the graduate work.
5 hrs. a week. Mj. Winter Quarter; 9:30
ASSISTANT PROFESSOR KINSLEY
Prerequisite: *Physics 3 and 4.*

15. **Mechanics and Wave Motion.**—A lecture course on the physical meaning and the mathematical derivation of the fundamental equations of Mechanics and Wave Motion.
4 hrs. a week. Mj. Autumn Quarter; 9:30
ASSISTANT PROFESSOR GALE
Prerequisite: *Physics 3 and 4.*

16. **Experimental Physics** (Advanced).—*Molecular Physics and Heat.* A course of advanced laboratory work involving the determination of vapor pressures and densities, co-efficients of friction of gases and liquids, molecular electrical conductivities, freezing and boiling points, latent and specific heats, etc.
10 hrs. a week. Mj. Spring Quarter; 8:30–10:30. ASSOCIATE PROFESSOR MILLIKAN
Prerequisite: *Physics 3 and 4.*

17. **Experimental Physics** (Advanced).—*Light.* A course of advanced laboratory work in Light, consisting of accurate measurements in diffraction, dispersion, interference, and polarization.
10 hrs. a week.
Mj. Spring Quarter; 11:00–1:00
ASSOCIATE PROFESSOR MANN
Prerequisite: *Physics 3, 4, and 5.*

18. **Experimental Physics** (Advanced).—*Electricity and Magnetism.* Laboratory work of the same grade as Courses 16 and 17, but consisting of measurements in Electricity and Magnetism.
10 hrs. a week.
Mj. Summer Quarter; 2:30–4:30
Mj. Autumn Quarter; 11:00–1:00
ASSISTANT PROFESSOR KINSLEY
Prerequisite: *Physics 3 and 4.*

25. **History of Science (Physical).**—A continuation of Course 9 in Philosophy, History of Science (ancient). A discussion of the origin and the evolution of modern physical science in its relation to the growth of civilization. This course is continued as History of Science (Biological) in Course 3 in Botany.
Mj. Winter Quarter; 11:00
PROFESSORS MOULTON, MANN, AND SMITH

GRADUATE COURSES

31, 32, 33. **Theoretical Physics.**—A series of lectures chiefly in Theoretical Physics, Hydrodynamics, Elasticity, Capillarity, Molecular Physics, Thermodynamics, Wave-motion, and Sound. Optical Theories, Electricity and Magnetism.
4 hrs. a week. Mj. Autumn, Winter, and Spring Quarters; 11:00
PROFESSOR MICHELSON
Prerequisite: *Physics 11, 12, and 13.*

37, 38, 39. **Experimental Physics.**—A course of laboratory work, chiefly devoted to the repetition of classical experiments, such as: Determination of the Mechanical Equivalent of Heat, Maxwell's "V," Hertzian Oscillation, Relative and Absolute Wave-lengths, etc. Mj. 10 hrs. a week
Autumn, Winter, and Spring Quarters
PROFESSOR MICHELSON
AND ASSOCIATE PROFESSOR MILLIKAN
Prerequisite: *Physics, 16, 17, and 18.*

40, 41, 42, 43. **Research Course.**—This course is intended for those Graduate students who are prepared to undertake special research. Except in the case of a purely mathematical problem, the entire time is to be devoted to work in the laboratory.
20 hrs. a week. Every quarter.
DMj. Summer Quarter
ASSOCIATE PROFESSOR MILLIKAN
3DMj. Autumn, Winter, and Spring Quarters
PROFESSOR MICHELSON
AND ASSOCIATE PROFESSOR MILLIKAN

48. **Spectrometry**—Laboratory work in photographing and measuring the spectra of various elements. Use of the concave grating echelon and interferometer. Mj. Winter Quarter
ASSISTANT PROFESSOR GALE

51. **Thermodynamics.** — Lectures upon the fundamental principles underlying the mechanical theory of heat and the application of these principles to physical and thermochemical problems.
5 hrs. a week. Mj. Autumn Quarter; 8:30
ASSOCIATE PROFESSOR MILLIKAN

52. **Electron Theory.**—A course of graduate lectures covering the work of the last ten years on the electrical properties of gases; the electron theory, and radioactivity. 5 hrs. a week.
Mj. Spring Quarter; 12:00
ASSOCIATE PROFESSOR MILLIKAN

53. **Experimental Electricity.**—A laboratory course in practical electricity involving a study of dynamos, motors, and transformers. 10 hrs. a week.
ASSISTANT PROFESSOR KINSLEY
[Not to be given in 1907–8]

57. **The Theory of Alternating Currents.**—A discussion of stationary and moving circuits, including transformers, transmission circuits, and the various types of dynamos and motors. The lectures will be illustrated by demonstrations of alternating current phenomena.
Mj. Summer Quarter; 1:30
ASSISTANT PROFESSOR KINSLEY

58. **Use of Alternating Currents.**—A course in the demonstration of alternate current phenomena, involving the preparation and use of alternate current apparatus. Open to students taking Physics 57. 6 hrs. a week.
M. Summer Quarter; 2:30–4:30
ASSISTANT PROFESSOR KINSLEY

59. **Modern Spectroscopy.**—A lecture course on the theory and use of prisms, plane and concave gratings, the echelon, the interferometer, the radiometer, bolometer, and thermopile in spectroscopy; and a discussion of the laws of emission, of spectral series, of the effects on spectra of pressure, temperature, magnetic field, motion of the medium, and motion in the line of sight. 5 hrs. a week. Mj. Summer Quarter; 11:00
ASSISTANT PROFESSOR GALE

XX. THE DEPARTMENT OF CHEMISTRY

OFFICERS OF INSTRUCTION

JOHN ULRIC NEF, PH.D., *Professor and Head of the Department of Chemistry.*
ALEXANDER SMITH, PH.D., *Professor and Director of General and Physical Chemistry.*
JULIUS STIEGLITZ, PH.D., *Professor of Chemistry.*
HERBERT NEWBY McCOY, PH.D., *Assistant Professor of Physical Chemistry.*
LAUDER WILLIAM JONES, PH.D., *Assistant Professor of Analytical Chemistry.*
JOHN CHARLES HESSLER, PH.D., *Instructor in Chemistry.*
THOMAS BRUCE FREAS, A.B., *Curator.*
WILLIS BOIT HOLMES, PH.D., *Associate in Chemistry.*
EDITH ETHEL BARNARD, S.M., *Associate in Quantitative Analysis.*
CHARLES MACDONALD CARSON, PH.D., *Research Assistant in Chemistry.*
JAMES WRIGHT LAWRIE, PH.D., *Research Assistant in Chemistry.*

WALTER STANLEY HAINES, A.M., M.D., *Professor of Chemistry, Pharmacy, and Toxicology, Rush Medical College; Professorial Lecturer on Toxicology.*

FELLOWS, 1906–7

ERNEST ANDERSON, S.M. (Lowenthal Fellow)
KATHARINE BLUNT, A.B.
WINFORD LEE LEWIS, M.A.
JOHN JACOB PUTNAM, S.B.

INTRODUCTORY

Research.—Research students in the University, or coming from other institutions, are encouraged to begin research if, and as soon as, their preparation justifies it. Facilities for research in all lines, whether of inorganic, organic, or physical chemistry, are provided. Special opportunities to pursue entirely independent research work will be given to maturer students who have already obtained the Doctor's degree.

Instruction.—The objects of the instruction are to prepare students (1) to teach in colleges or universities; (2) to teach in secondary schools; (3) to fill positions as technical experts or assistants in chemical industries; (4) to become analysts in commercial or sanitary laboratories. The elementary courses may be taken with advantage by students having none of these ends in view.

Special stress will be placed on thorough preparation and symmetrical development of the student's knowledge. The object of the courses will be not so much to train specialists as to prepare the student to undertake intelligently any and every kind of work of a chemical nature. Those intending to become practical chemists will find a thorough course of purely scientific chemistry the best basis for future specialization in any direction whatever. Those who incline toward inorganic chemistry will be required to do much physical and a considerable amount of organic work; those proposing to become organic chemists will be required to do work in inorganic chemistry of a more advanced nature than that given in the elementary and analytical courses, and some physical chemistry, and so forth.

The degree of Ph.D.: Chemistry as major subject.—The requirements for the degree of Doctor of Philosophy (for general University regulations, see p. 11 of this *Circular*) are:

1. The presentation of a thesis embodying the result of original research in General Inorganic, Organic, Physico-Organic, or Physical Chemistry. This must constitute a real contribution to knowledge, and the work is usually done under the direction of an officer of the Department.

2. Especially thorough and mature knowledge of the branches of Chemistry touched by the thesis, and less thorough but sufficient knowledge of other fundamental branches of the science.

The general requirements for all candidates are as follows: Courses 1–3 (or 1A, 2A), 4*, 6–9, 28A, 28B, and two majors selected from Courses 10, 11, 13A–13G, 14–16; total twelve majors, of which eight majors are undergraduate work.

Special requirements in addition to the above, arranged according to the thesis subject, are as follows:

General Chemistry: Courses 25–27, 20 or 31, and two majors taken from Courses 13, 14, 15, 16, 19, 21, 22, 29–32; total, six Majors.

Organic Chemistry: Courses 6, 20–22, 25, and one major from 10, 13, 19, 26, 27, 29–32; total, six majors.

Physico-Organic Chemistry: Courses 15, 20, 21, 25, and 22 or 31, and one major taken from Courses 10, 13, 19, 26, 27, 29–32; total, six majors.

Physical Chemistry: Courses 25, 26, 31, 32, and two majors taken from Courses 10, 13, 14, 16, 19, 20–22, 27; total, six majors.

In addition to one set of these specific requirements, at least six half-majors will be chosen from the special lecture courses, 23, 29, 30, 34–38, 40, 42. The research work will require from four to six quarters.

3. Sufficient work in one or two minor subjects. For instance, if Physics is a minor subject, two years of College Physics, Courses 1, 2, 3, and three of the Courses 11, 12, 13, 16, 17, 18. In addition to the regular minor subject, all candidates are advised to take mineralogy and crystallography (about ½Mj).

4. A reading knowledge of French and German is required of candidates for higher degrees.

The degree of Ph.D.: Chemistry as secondary subject.—When Chemistry is a secondary subject, the requirement is determined after conference with the Head of the Department in which the major work is done. Courses 2, 3, 6, 7, 8, and four other majors will be required when Chemistry is the only secondary subject; Courses 2, 3, 6, 7, 8 and one other major, when Chemistry is one of two secondary subjects. Elementary Physical Chemistry (28A and 28B) or Organic Chemistry, according as the major subject belonged to the Physical or the Biological Group.

The Master's degree.—For the Master's degree a dissertation and eight majors of graduate work in Chemistry are required if all the work is in this Department. These majors must be selected from Courses 10 to 42, with the approval of the Head of the Department. Courses prerequisite to these must be taken, but cannot be counted in reckoning the eight required majors.

Special students.—Special or unclassified students, not candidates for a degree, will be received, but in every case they will be required to give evidence, satisfactory to the instructors in the different branches, that their previous training has been sufficient to enable them to derive full profit from the courses they propose to take.

Preparation for teaching.—While students who have not taken the work required for the Doctor's or

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* Course 4 may be omitted when advanced lecture and laboratory work in Organic Chemistry is taken.

Master's degree are not usually recommended for college or university positions, the degree of bachelor, with a sufficient amount of work in Chemistry, is at present considered preparation for teaching in secondary schools. In general the work in Chemistry should include Courses 1, 2, 3, 4, 6, 7, 8, 28A, 28B, and 40, or their equivalent, as well as work in the College of Education (see the *Annual Register* for 1905–6). The prospective teacher should secure preparation to teach at least one science besides Chemistry.

Preparation for technical positions.—1. The thorough scientific training in all branches of Chemistry required for the Ph.D. degree forms the best basis for a future career as a chemical expert in any branch of chemical industry. With this preparation, the principles and details of technical processes are quickly grasped, advances in industrial processes are intelligently followed, and newly discovered principles are readily applied.

2. Students who have taken from ten to fifteen majors of work in the Department are able to fill satisfactorily positions as assistants in technical and analytical laboratories, and after some practical experience to advance to positions of independent responsibility. Students should take at least Courses 1 to 10, inclusive, and one or two majors in Courses 13A–13G. If possible, Courses 28A and 28B and, according to the choice of work in Organic or Inorganic Chemistry, two or three courses selected from Nos. 12, 14–16, 20–22, 25–27 should be taken in the interest of a broader and more thorough preparation. Students taking such a preparation are given the preference in answering requests received by the Department. Students taking the less complete training mentioned above, however, are also sought by technical firms.

3. The Department gives, with other departments (notably Physics and Mathematics) of the University and the Department of Manual Training of the University High School, the equivalent of three years of a four years' course in Chemical Engineering. Students are able to take a large part of this work in the purely scientific fundamental branches while candidates for a Bachelor's degree.

Recommendation of Students to Positions.—The Department of Chemistry does not undertake to secure positions for those who have studied in it, but as a matter of fact, worthy students find suitable places quickly, and in the past the demand for chemists of all the kinds mentioned above has far exceeded the supply.

University Fellowships yielding an income of $320 or $520 annually are open to Graduate students in Chemistry. A Fellowship in Chemistry has been endowed since 1901 by Mr. Berthold Loewenthal, of Chicago, as a memorial of his son Joseph B. Loewenthal; it yields an annual income of $420.

The Departmental Library is equipped with an almost complete list of periodicals, past and current, necessary for prosecuting research; it also possesses a large number of reference and handbooks.

A number of general scientific journals and many of the proceedings of learned societies are received in the General Library.

One Senior College and one Graduate Scholarship are awarded yearly in accordance with the general regulations of the University, to two students graduating from the Junior and Senior Colleges respectively.

COURSES OF INSTRUCTION

Primarily for the Senior Colleges

Note.—Courses 6, 7, 8, 9, 10, 11 and 13 are given in the analytical laboratories. The laboratories are open from 8:00 A. M. to 6:00 P. M. (Saturdays only to 1:00 P. M.). The hours of instruction provide for morning and afternoon sections and will be posted in the laboratory.

Courses 8 and 9 will count toward a Master's or the Doctor's degree when Chemistry is the *secondary* subject.

6. **Qualitative Analysis.**—*Introductory Course.*
Mj or DM. 8 or 16 hrs. a week, laboratory.
2 hrs. a week classroom. Lectures, 2:00.
Summer Quarter
Professor Stieglitz and Dr. Holmes
Autumn Quarter
Professor Stieglitz
Winter and Spring Quarters
———

Prerequisite: *Course 3*, or *3S*.

The lectures deal with the chemistry of the analytical reactions, and special attention is given to the development and application of the laws of equilibrium and solutions. This course is, in an important sense, one in advanced general chemistry.

7. **Qualitative Analysis.**—Continuation of Course 6.
Hours as in 6. Mj or DM. Summer Quarter
Dr. Holmes
Autumn Quarter
Professor Stieglitz
Winter and Spring Quarters
(———)

Courses 6, 7, 10 form a continuous course, which may be begun in any Quarter.

The aim of Courses 6, 7, 10 will be to train the student to do intelligent analytical work based on a knowl-

edge of the scientific principles of the subject and to apply and amplify his knowledge of General and Physical Chemistry.

8. **Quantitative Analysis.** — *Introductory Course.* Chiefly laboratory work in gravimetric and volumetric analysis.

Mj or DM. 8 or 16 hrs. a week, laboratory. Lecture 1 hour. Summer Quarter
PROFESSOR STIEGLITZ
Autumn and Spring Quarters
MISS BARNARD
Winter Quarter
PROFESSOR STIEGLITZ AND MISS BARNARD

Prerequisite: *Qualitative Analysis* (Courses 6 and 7). Medical students will be admitted to the course after having taken Course 6.

9. **Quantitative Analysis.**—Continuation of Course 8. Mj or DM. 10 or 20 hrs. a week, laboratory.
Summer Quarter
PROFESSOR STIEGLITZ
Autumn and Spring Quarters
MISS BARNARD
Winter Quarter
PROFESSOR STIEGLITZ AND MISS BARNARD

Courses 8, 9, and 11 form a continuous course, which may be begun in any Quarter.

PRIMARILY FOR THE GRADUATE SCHOOL

10. **Advanced Qualitative Analysis.**—Mj or DM. 10 or 20 hrs. a week, laboratory.
Summer Quarter
DR. HOLMES
Autumn Quarter
PROFESSOR STIEGLITZ
Winter and Spring Quarters
(———)

Open to College students. Continuation of Courses 6 and 7.

11. **Advanced Quantitative Analysis.**—Mj or DM. 10 or 20 hrs. a week.
Summer and Winter Quarters
PROFESSOR STIEGLITZ

Continuation of Courses 8 and 9. Open to students in the Senior Colleges.

12. **Elementary Spectrum Analysis (Qualitative).** — Emission (flame and electric spark) and absorption spectra of inorganic substances. Chiefly laboratory work. ½Mj. Winter Quarter
ASSISTANT PROFESSOR JONES
[Not to be given in 1908]

13. **Special Methods in Quantitative Analysis.**—Chiefly laboratory work.

13A. Electrolytic Methods. ½Mj or Mj
13B. Special Mineral Analysis. Mj
13C. Water Analysis. ½Mj
13D. Gas Analysis. ½Mj
13E. Organic Elementary Analysis. ½Mj
13G. Iron and Steel Analysis. ½Mj or Mj
13H. Proximate Food Analysis. ½Mj or Mj
Summer, Autumn, Winter, and Spring Quarters
PROFESSOR STIEGLITZ AND MISS BARNARD

Prerequisite: *Quantitative Analysis, 8 and 9.*

13F. **Assaying.** — Fire-assay of gold, silver, and lead ores. Mj. Spring Quarter
MR. FREAS

Prerequisite: *General Chemistry, Qualitative and Quantitative Analysis* (Courses 8 and 9).

14. **Organic Chemistry.**—Lectures 3 hrs. a week.
Mj. Autumn Quarter; 11:00
PROFESSOR NEF

Prerequisite: *General Chemistry and Qualitative Analysis.*

15. **Organic Chemistry.**—Continuation of Course 14.
Mj. Winter Quarter; 11:00
PROFESSOR NEF

16. **Organic Chemistry.**—Continuation of Course 15.
M. First Term, Spring Quarter; 11:00
PROFESSOR NEF

Courses 14, 15, 16 form a continuous course, covering the compounds of carbon, including the fatty and the aromatic series. The aim of the course will be to take up very thoroughly the simpler compounds, going with great detail into the chemical behavior, the characteristic reactions, and relationships of the different classes of organic compounds, and considering with great care the synthetic methods by which they can be obtained. Richter's or Bernthsen's *Organic Chemistry* is used as a reference book, but recent literature will, in special cases, be considered in detail.

17. **General Organic Chemistry.**—Fatty and aromatic series.

Lectures, 5 hrs. a week.
Mj (or M. First Term). Summer Quarter; 8:30.
DR. HESSLER

Prerequisite: *General Chemistry and Qualitative Analysis.*

18. **Elementary Organic Preparations.**—Laboratory work; 10 hrs. a week. This course is arranged to accompany the lectures of Course 17. It may be taken without the lectures by students who have had organic chemistry.
½Mj or Mj. Summer Quarter
DR. HESSLER

Prerequisite: *As in Course 17.*

19. **Toxicology.** ½Mj. Autumn Quarter
PROFESSOR HAINES AND ASSISTANT

19B. **Poisons and Their Detection.**—A conference and laboratory course.
M. Second Term, Spring Quarter
PROFESSOR HAINES

20. **Organic Preparations.**—Laboratory work, 10 or 20 hrs. a week.
Mj or DM. Autumn, Winter, and Spring Quarters. PROFESSOR NEF
Summer Quarter
DR. HESSLER

Prerequisite: *Qualitative and Quantitative Analysis*, and *Organic Chemistry* (it may be taken simultaneously in connection with lectures on Organic Chemistry). A reading knowledge of German is essential.

21. **Organic Preparations.**—Continuation of Course 20. Mj or DM
Autumn, Winter, and Spring Quarters
PROFESSOR NEF
Summer Quarter
DR. HESSLER

22. **Organic Preparations.**—Continuation of Course 21. Mj or DM
Autumn, Winter and Spring Quarters
PROFESSOR NEF
Summer Quarter
DR. HESSLER

23. **Physical Chemistry Applied to Problems in General Chemistry.**
PROFESSOR SMITH

Prerequisite: *College Physics, General Chemistry, and Qualitative Analysis.*
[Not to be given in 1907–8]

24. **Advanced Inorganic Chemistry.**—Two lectures a week on selected topics. ½Mj
Winter Quarter
ASSISTANT PROFESSOR JONES

Prerequisite: *General Chemistry and Qualitative Analysis.*
[Not to be given in 1908]

25. **Inorganic Preparations.**—Laboratory work.
Mj or DM. 10 or 20 hrs. a week
Autumn Quarter
ASSISTANT PROFESSOR JONES
Summer Quarter
DR. HESSLER

Prerequisite: *Qualitative and Quantitative Analysis, and a reading knowledge of German.*

26. **Inorganic Preparations.**—Continuation of Course 25. Mj or DM
Autumn and Winter Quarters
(———)

27. **Inorganic Preparations.**—Continuation of Course 26. Mj or DM
Autumn and Winter Quarters.
(———)

28A. **Elementary Physical Chemistry.**—With special reference to Physico-Chemical measurements.
½Mj. Summer and Spring Quarters
ASSISTANT PROFESSOR MCCOY

Prerequisite: *College Physics* (Course 1) *and Qualitative Analysis* (Course 6).

28B. **Practical Physical Chemistry.** ½Mj or M
First or Second Term, Summer Quarter
ASSISTANT PROFESSOR MCCOY
½Mj. Spring Quarter
ASSISTANT PROFESSOR MCCOY

Prerequisite: *College Physics* (Course 1). *Quantitative Analysis* (Course 8); Course 28A should accompany or precede this course.

28C. **Practical Physical Chemistry**—(continuation).
½Mj or M. Autumn Quarter
ASSISTANT PROFESSOR MCCOY

29. **Chemical Dynamics.** ½Mj. 2 hrs. a week.
Autumn Quarter; 12:00
ASSISTANT PROFESSOR MCCOY

Prerequisite: *Elementary Physical and Organic Chemistry, including laboratory work; the elements of Calculus.*

29A. **Chemical Dynamics and Electro-Chemistry.**
Mj. Summer Quarter
ASSISTANT PROFESSOR MCCOY

30. **Electro-Chemistry.**
½Mj. 2 hrs. a week. Spring Quarter
ASSISTANT PROFESSOR MCCOY

Prerequisite: *Elementary Physical Chemistry, including laboratory work; the elements of Calculus.*

30A. **Laboratory Course in Radioactivity.**
½Mj or M. Summer Quarter
ASSISTANT PROFESSOR MCCOY

31. **Advanced Physical Chemistry.**—Laboratory course. Mj or DM
Summer, Autumn, and Spring Quarters
ASSISTANT PROFESSOR MCCOY

Prerequisite: *College Physics, 1 year.* Course 29 should accompany or precede this course.

32. **Advanced Physical Chemistry.**—Laboratory course. Continuation of Course 31.
Mj or DM. Summer, Autumn, and Spring Quarters
ASSISTANT PROFESSOR MCCOY

33. **Research Work.**—This course will include from 30 to 40 hrs. a week of laboratory work, under the special direction of some one of the instructors in the department. It is expected that research work for a Ph.D. thesis will require 4–6 Quarters, 4–6 DMj.

33*a*. *Research in Organic Chemistry.*— Autumn, Winter and Spring Quarters.

PROFESSOR NEF

33*b*. *Research in General Chemistry.* — Winter and Spring Quarters.

PROFESSOR SMITH

33*c*. *Research in Organic and Physico-Organic Chemistry.* — Summer, Autumn, Winter, and Spring Quarters.

PROFESSOR STIEGLITZ

33*d*. *Research in Physical Chemistry.*—Summer, Autumn, and Spring Quarters.

ASSISTANT PROFESSOR MCCOY

Before being admitted to Research, a candidate must satisfy the instructors of the Department, by an oral test, or otherwise, that his previous training has been sufficient.

34. **Physical Chemistry Applied to Organic Problems.** Lectures 2 hrs. a week.

½Mj. Winter Quarter
PROFESSOR STIEGLITZ

Prerequisite: *Organic Chemistry and Elementary Physical Chemistry.*

35. **The Carbohydrates and the Terpenes** (and their derivatives). Autumn Quarter.

PROFESSOR STIEGLITZ

Prerequisite: *Organic Chemistry.*
[Not to be given in 1907–8]

36. **Organic Nitrogen Derivatives.**— Uric acid series; pyridine, quinone-imides, and phenazine compounds; a discussion of the alkaloids, ptomaines and organic dye-stuffs.

½Mj. Winter Quarter
PROFESSOR STIEGLITZ

Prerequisite: *Organic Chemistry.*
[Not to be given in 1907–8]

37. **Special Chapters of Organic Chemistry.**— Lectures, 4 hrs. a week.

M. Second Term, Spring Quarter
PROFESSOR NEF

Prerequisite: *Organic Chemistry.*

38. **The Aromatic Series.**— Lectures, 2 hrs. a week.

——— Quarter
PROFESSOR STIEGLITZ

Prerequisite: *Organic Chemistry.*

39. **The Atomic Theory.**

½Mj. Autumn Quarter
ASSISSANT PROFESSOR MCCOY

40. **Training Course in the Teaching of Chemistry.**— This course, for prospective teachers in secondary schools, will include: (1) In autumn, observation of teaching in several schools in the city and reports on the same; (2) in winter, a series of conferences on the didactic of chemistry; (3) in spring, practice-teaching in the University High School and in the Junior Colleges under criticism and supervision.

1½Mj. Continued through Autumn, Winter, and Spring Quarters.

PROFESSOR SMITH

Prerequisite: *Chemistry* 1, 2, 3, 4, 6, 7, 8, 28A, 28B; *Physics* 1, 2, 3, or their equivalents, must precede or accompany this course.
[Not to be given in 1907–8]

42. **History of Chemistry.**— Two hours a week. Winter Quarter. ½Mj

DR. HESSLER

43. **Club Meetings.**—Meetings will be held twice a month. They may be attended by anyone interested, whether connected with the University or not; the subjects for the meetings will be announced at least one week beforehand.

Summer, Autumn, Winter, and Spring Quarters
VARIOUS MEMBERS OF THE STAFF

44. **The Chemistry of Photography.** ½Mj
[Not to be given in 1907–8]

45. **Radioactivity and the Nature of Matter.**—Lectures.

M. First Term, Summer Quarter
ASSISTANT PROFESSOR MCCOY

Prerequisite: *Elementary Physical Chemistry.*

46. **Progress of Physical Chemistry in Last Two Years.**—Lectures.

M. Second Term, Summer Quarter
ASSISTANT PROFESSOR MCCOY

Prerequisite; *Elementary Physical Chemistry.*

47. **Debatable Questions in General Chemistry.**— For teachers and others. ½Mj. Summer Quarter

ASSISTANT PROFESSOR JONES

48. **History of Science (Physical).**— A continuation of Philosophy 9, History of Science (ancient). A discussion of the origin and the evolution of modern physical science in its relation to the growth of civilization.

Winter Quarter; 11:00
MESSRS. MOULTON, MANN, AND SMITH

XXI. THE DEPARTMENT OF GEOLOGY

OFFICERS OF INSTRUCTION

THOMAS CHROWDER CHAMBERLIN, Ph.D., LL.D., *Professor and Head of the Department of Geology.*
ROLLIN D. SALISBURY, A.M., LL.D., *Professor of Geographic Geology.*
JOSEPH PAXSON IDDINGS, Ph.B., *Professor of Petrology.*
*RICHARD ALEXANDER FULLERTON PENROSE, Jr., Ph.D., *Professor of Economic Geology.*
STUART WELLER, Ph.D., *Assistant Professor of Paleontologic Geology.*
WALLACE WALTER ATWOOD, Ph.D., *Instructor in Physiography and General Geology.*
HARLAN H. BARROWS, S.B., *Instructor in Physiography and General Geology.*
WILLIAM CLINTON ALDEN, Ph.D., *Docent in Field Geology.*

CHARLES KENNETH LEITH, Ph.D., *Lecturer on Pre-Cambrian Geology* (Winter Quarter, 1908).
FREDERICK LESLIE RANSOME, Ph.D., *Lecturer on Ore Deposits* (Spring Quarter, 1908).
ELIOT BLACKWELDER, A.B., *Assistant Professor* (Summer Quarter, 1907).
FRED HARVEY HULL CALHOUN, Ph.D., *Instructor* (Summer Quarter, 1907).

JOEL ERNEST CARMAN, S.B., *Research Assistant* (1906–7).
ROLLIN THOMAS CHAMBERLIN, S.B., *Research Assistant.*
EUGENE WESLEY SHAW, S.B., *Research Assistant* (1906–7).

FELLOWS 1906–7

STEPHEN REID CAPPS, Jr., A.B.
FRANK JAMES KATZ, A.B.
OSCAR EDWARD MEINZER, A.B.
WILLIAM JOHN REED, S.B.
CHESTER WESLEY WASHBURNE, A.B.

INTRODUCTORY

The aim of the Department is to provide systematic training in Geology, including, as constituent sciences, Geography, Mineralogy, Petrology, and the geologic phases of Paleontology. The endeavor is to furnish this training in such a form as to contribute to a liberal education and at the same time to prepare for professional and investigative work in the science. The cultural purpose predominates in the earlier courses and the investigative and professional in the later, but both have a place in all, and find their realization in a common method of treatment.

The brief synopses given under the several courses are intended merely to indicate the general line of topics treated. No hard and fast succession of subjects or rigid modes of procedure are contemplated. Full liberty is reserved to modify the courses, or even to change them somewhat radically, in the interests of better adaptation to the attainments, abilities, and desires of the students who present themselves. In the more advanced courses especially, a large measure of individual adaptation is sought, and the courses are held plastic to that end. The scheme of courses rises by a progressive gradation from collective work by classes at the outset to purely individual work at the close.

University Fellowships yielding incomes of from $120 to $520 are open to students in Geology, and are assigned yearly in accordance with the University regulations governing Fellowships.

The Department of Geology occupies quarters in the Walker Museum building. A large and careful selection of geographic illustrative material, embracing relief maps, models, transparencies, photographs, lantern slides, and special devices, besides maps and charts, constitutes an exceptionally effective aid to instruction. The extensive collections of fossils give unrivaled facilities for certain lines of paleontological investigations. The Field Columbian Museum is located within a few blocks of the University, and its very extensive collections are open, without expense, to the members of the University.

A special geological library is maintained for the use of the Department. It is open throughout the day and constitutes a study-room for students. Between the laboratories and the library, facilities are provided

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* Absent on leave.

whereby the larger part of the student's work may be done within the rooms of the Department, and in intimate association with the members of the geological Faculty. The library embraces about 5,000 volumes. Besides standard works it includes sets of the more valuable reports of scientific societies, official geological reports of the United States, Great Britain, India, and other countries, the state reports, maps, and charts of the United States Coast and Geodetic Survey, and of the United States Geological Survey, as well as many of those of European and other countries. The library is well supplied with files of geologic and geographic journals.

The *Journal of Geology*, a semi-quarterly magazine, devoted to Geology and allied sciences, is published by the Department. The immediate editorship rests with the members of the geological Faculty, but there are associated with them the heads of geological departments in some of the leading American and European universities, together with several official geologists of this and other countries.

I. *The Doctor's degree.* — The courses expected of candidates for a Ph.D. degree are as follows (some undergraduate courses being included):

A. Geology the Major Subject

1. Where General Geology is the major subject, Courses 7, 8, 11, 12, 13, 15, 16, 18, 20, 21, 22, 23, 23A, 27, 28, 29, 30, 31, 32, 36, 38, 40, 41, 43, 44, 45, and 46, or their equivalents, together with special work in the line of the thesis.

2. Where Geographic Geology is the major subject, Courses 7, 8, 9, 10, 13, 15, 16, 18, 20, 28, 29, 36, 38, 40, 41, 43, 44, 45, and 46, or their equivalents, Courses 7 and 10 in Geography, together with special work in the line of the thesis; and in addition a general knowledge of Zoögeography and Geographic Botany.

3. Where Petrology is the major subject, Courses 7, 8, 11, 12, 13, 15, 16, 18, 20, 28, 29, 30, 31, 32, 33, 34, 35 (Courses 30–35 being taken as Double Majors), 36, 37, 38, 39, 40, 41, 42, 44, 45, and 46, or their equivalents, together with special work in the line of the thesis; and in addition Mechanical Drawing, General and Molecular Physics, General Inorganic Chemistry, Qualitative and Quantitative Analysis including rock analysis.

4. Where Paleontologic Geology is the major subject, Courses 7, 8, 10, 11, 12, 13, 15, 16, 18, 20A, 21, 22, 23, 23A, 24, 25, 26 (the last three as Double Majors), 28, 29, 36, 40, 41, 43, 44, 45, 46, or their equivalents, together with special work in the line of the thesis; and in addition Vertebrate Paleontology, General Biology, Field Zoölogy, General, Field, and Geographic Botany, and Ecology.

In all cases a thorough knowledge of the principles of Physics and Chemistry is presupposed.

B. Geology the Minor Subject

5. Where Geology is the minor subject, nine Majors of work which must include Courses 8, 15, 16, and 18.

6. In case Geology is taken as one of two Minors, four to six Majors of work, including Courses 15, 16, and 18, must be taken.

II. *The Master's degree.* — The courses expected of a candidate for a Master's degree, if all his work is taken in the Department, include eight majors together with a dissertation, the courses to be selected from those numbered 4 and upward. They must include Courses 8, 15, 16, and 18.

In the case of students who have already done a large part of the required graduate work before coming to this University, and who have had much experience in field or laboratory research, the Department endeavors to make a just and reasonable estimate of equivalents, and does not rigidly insist upon the special apportionments of work above indicated.

A special geological library is maintained for the use of members of the Department. It is open throughout the day, and constitutes a study-room for students, to whom the library becomes a literary laboratory.

COURSES OF INSTRUCTION

4. Physiography of the United States.—An advanced course in Physiography, with especial reference to the area indicated. A desirable antecedent to Course 10, Department of Geography.

Prerequisite: *Courses 1 and 2 or their equivalents.*

DR. ATWOOD

[May not be given in 1907–8]

PRIMARILY FOR THE SENIOR COLLEGES

7. Field and Laboratory Course.—Study of the geography and geology of Chicago and vicinity, and of relief, topographic, and geologic maps. The course will include two field trips (one on Saturday) and three laboratory exercises (or lectures) weekly. For teachers, and for those

who wish to learn methods of field work. Open to students who have a knowledge of Physiography and elementary Geology. Class limited to 16.

M. Second Term, Spring Quarter; 2:00
Dr. ———

M. First Term, Summer Quarter; 1:30
Mr. ———

Note.—Students taking this course should take no other course in the afternoon.

[Not to be given in Summer Quarter, 1907]

8. **Field Geology.** (First Course outside of Chicago).—This course is intended to form an introduction to the more specialized professional courses that follow, and to furnish a basis for the teaching of Geography, Physiography, and elementary Geology. It involves training in stratigraphic, surficial, and other field determinations, together with mapping, sketching, and technical description. The field for the First Term of 1907 is the vicinity of Devil's Lake, Wis. (See note below.)

3M. First Term, Summer Quarter
Dr. Calhoun

Repeated. Second Term, Summer Quarter
Mr. Trowbridge

[May not be given Second Term]

Prerequisite: *Physiography and General Geology.*

Note.—The class of the First Term will start June 24; that of the Second Term, July 29. In both cases, students should be at the University at least one day in advance. Applications for admission to either course should be made early. The classes will be limited to twelve and eight members, respectively. Unless there is urgent demand for it, the course may not be given the Second Term.

10. **Elementary Mineralogy and Petrology.** — This course will include the study of the common rock-making minerals, and of the common rocks.

M. First Term, Spring Quarter
Mr. ———

M. First Term, Summer Quarter; 8:00
Laboratory Work; 8:00–10:00
Mr. ———

Note.—Class limited to 16.

[Not to be given in Summer Quarter, 1907]

11. **Introduction to Mineralogy. Physical and Geometrical Crystallography.** — Physical characteristics of crystals. General principles of Crystallography. Projection and construction of figures of crystals. Groth, *Physikalische Krystallographie*, etc. Mj. Autumn Quarter; 9:30
Professor Iddings

Prerequisite: *General College Physics and General College Inorganic Chemistry.*

12. **Descriptive and Determinative Mineralogy**—Essential characteristics of minerals. Laboratory work in testing minerals by chemical and blowpipe methods. Mj. Winter Quarter; 9:30
Professor Iddings

Prerequisite: *Course 11.*

For Senior College and Graduate Students

13. **Vulcanism and Metamorphism.**—Volcanoes and volcanic phenomena, with a discussion of the theories concerning them. Metamorphic processes and the resulting changes in rocks.

Mj. Spring Quarter; 9:30
Professor Iddings

Prerequisites: *Courses 12 and 16.*

15. **Geographic Geology.**—The origin, development, and destruction of geographic features. The agents and processes involved. Contemporary geographic formations. Significance of landscape contours and geographic outlines. Geophysiognomy. Mj or DMj. Autumn Quarter; 2:00
Professor Salisbury

Course 15 should be followed by Course 16.

Prerequisite: *Course 2, Chemistry and Physics.*

Note.—Students intending to specialize in Geology should take this course as a DMj. Occasional field trips on Saturday, some of them taking most of the day, are required.

16. **Structural Geology and Continental Evolution.** This course is based primarily on the physical history of the North American continent.

Mj or DMj. Winter Quarter; 2:00
Professor Salisbury

Prerequisites: *Courses 10 or 12, and 15.* This course should be followed by Course 18.

Note.—Students specializing in Geology should take this course as a DMj.

17. **Topographic Surveying.**—The making of topographic maps. Principles; Practice.

M. Spring Quarter
Mr. ———

18. **Geologic Life Development.** — A study of the introduction and succession of the ancient forms of life in their geologic relationships; constituting historical Geology studied on the life side.

Mj. Spring Quarter; 2:00
Assistant Professor Weller

Prerequisite: *Systematic Zoölogy and Botany*, and *Courses 15 and 16.*

19. **Teachers' Course.**—A course for teachers of Physiography. The principles and the methods of

Physiography in secondary schools, and the selection of material to be presented.

M. First Term, Summer Quarter
PROFESSOR SALISBURY

Prerequisite: *Physiography and General Geology.*

20. **Field Geology** (Second Course). — Advanced field work, involving the systematic investigation of a formation or an area. A formal report, as nearly as practicable in conformity with the approved methods of official geological reports, is required. The work may be prosecuted during the months of July, August, and September. In all cases, the arrangements must be individual, and the fields will be selected according to the needs of the student. The former glaciation in selected mountain regions of the west, and the drift formations in selected areas in Wisconsin, will be the special topics.

3M. Second Term, Summer Quarter
PROFESSOR SALISBURY AND DR. ALDEN

Prerequisite: *Courses 8, 10, 15, and 16, or their equivalents.*

20A. **Field Geology** (Second Course). — This course involves the systematic investigation of an area in the Mississippi valley. Special attention is given to the stratigraphic and structural features of sedimentary formations, and to the use of fossils in the interpretation of stratigraphy. Four weeks will be spent in the field and the course will be completed by the subsequent preparation of a written report.

3M (during September)
ASSISTANT PROFESSOR WELLER

Prerequisite: *Courses 8, 15, 16, and 18, or their equivalents.*

[Not to be given in 1907]

PRIMARILY FOR GRADUATE STUDENTS

21. **Invertebrate Paleontology.**— A study of the hard parts of invertebrate animals preserved as fossils, their classification, and their geologic and geographic distribution. Lectures and laboratory work.

Mj. Autumn Quarter; 3:00–5:00
ASSISTANT PROFESSOR WELLER

Prerequisite: *Course 2 or its equivalent.* Desirable antecedents: *Courses 15 and 16.*

22. The first term is devoted to a continuation of Course 21; the second term to the special study of the life of a selected geologic period.

Mj. Winter Quarter; 3:00–5:00
ASSISTANT PROFESSOR WELLER

23. **Invertebrate Paleontology.**—Laboratory work in the preparation and identification of invertebrate fossils and training in the practical uses of the literature on the subject.

Mj or DMj. Spring Quarter; 3:00–5:00
ASSISTANT PROFESSOR WELLER

Prerequisite: *Courses 21 and 22.*

23A. **Stratagraphic Paleontology.**—An investigative study of the ancient faunas of the earth, their composition, origin, and geographical distribution; the interpretation of the facts and their application to geologic problems, and to problems in paleogeography.

Mj. Autumn Quarter
ASSISTANT PROFESSOR WELLER

Prerequisite: *Courses 18, 21, 22, 23.*

24, 25, 26. **Special Paleontologic Geology.** — Chiefly individual work on the life of special geological periods or formations, or on other selected themes in historical or applied Paleontology.

Mj or DMj. Autumn, Winter, and Spring Quarters.

Hours arranged to suit individual students.

ASSISTANT PROFESSOR WELLER

27. **Continental Evolution.**— A comparative study of continents other than North America.

Mj. Winter Quarter; 3:00
PROFESSOR SALISBURY

Prerequisite: *Courses 8, 16, and 21.*

28. **Economic Geology.**—A discussion of the nature, occurrence, and uses of non-metallic mineral resources. M. Spring Quarter

Prerequisite: *Same as for Course 29.*

29. **Economic Geology.** — A discussion of the nature and distribution of ore deposits and of the principles of ore deposition. M

Prerequisite: *Courses 12 and 16; Inorganic Chemistry and Physics.*

[Not to be given in 1908]

30, 31, 32. **Petrology.** — Megascopical and microscopical characters of rocks; mineral and chemical composition; origin and classification.

Mj or DMj
Autumn, Winter, and Spring Quarters; 3:00
PROFESSOR IDDINGS

Prerequisite: *Course 12.*

These courses may be taken as Majors or Double Majors, according to the amount of laboratory work.

33, 34, 35. — **Special Petrology.** Chiefly individual work in advance of Courses 30, 31, 32.

Mj or DMj. Autumn, Winter, and Spring Quarters. Hours arranged to suit individual students. PROFESSOR IDDINGS

36. **Pre-Cambrian Geology.**—The nature and the distribution of the rocks, and the nature of the problems involved; structural and metamorphic changes.

M or DM. First Term, Winter Quarter
PROFESSOR LEITH

Prerequisite: *Courses 16 and 30.*

[Not to be given in 1908]

37. **Petrology of Metamorphic Rocks.**—A laboratory course accompanying Course 36.

M or DM. First Term, Winter Quarter
PROFESSOR LEITH

Prerequisite: *Courses 16, 30, and 31.*

[Not to be given in 1908]

38. **Ore Deposits** (Advanced Course).—A discussion of the origin of a selected class of ore deposits, and of the chemical processes involved in their formation. The class of ores selected will vary from year to year. M or DM

Prerequisite: *Courses 13, 16, 29, 30, and Chemistry.*

[Not to be given in 1908]

39. **Building Material.**—An advanced course on building stone, clays, cements, etc.

M. Spring Quarter

Prerequisite: *Courses 16, 28, and 30.*

[May not be given in 1908]

40, 41. **Principles and Theories of Geology.**—Critical discussions of principles, fundamental theories, modes of interpretation, and working hypotheses in their application to the leading questions of geological history.

2Mj. Winter and Spring Quarters; 4:00
PROFESSOR CHAMBERLIN

Prerequisite: *Courses 15 and 16, or their equivalents, the elements of Paleontology and Petrology, and their antecedents.*

43, 44, 45. **Special Geology.** — Chiefly individual work on selected themes under the personal supervision of the professors in charge.

Summer, Autumn, Winter, and Spring Quarters.

PROFESSORS CHAMBERLIN, SALISBURY, IDDINGS, AND WELLER

46. **Field Geology** (Third Course).—This contemplates thorough and systematic work in close conformity to official standards, and, as nearly as possible, individual and independent. The course may form the basis for a Doctor's thesis.

Summer Quarter
PROFESSORS CHAMBERLIN, SALISBURY, IDDINGS, AND WELLER

XXI A. THE DEPARTMENT OF GEOGRAPHY

OFFICERS OF INSTRUCTION

ROLLIN D. SALISBURY, A.M., LL.D., *Professor and Head of the Department of Geography.*
JOHN PAUL GOODE, PH.D., *Assistant Professor of Geography.*
HARLAN H. BARROWS, S.B., *Instructor.*
ELLEN CHURCHILL SEMPLE, PH.D. (Spring Quarter, 1908).

FELLOW, 1906–7

HARRY MILTON CLEM, A.B.

INTRODUCTORY

The courses now arranged for in this Department deal with subjects which are intermediate between Geology and Climatology, on the one hand, and History, Sociology, Political Economy, and Biology, on the other. It should be understood that the courses here announced do not include all of the geographic work of the University. The Geography courses which ally themselves closely with Geology are given in that Department; courses in Zoögeography, and Geographic Botany, are given by the Departments of Zoölogy, and Botany; Courses in the pedagogical aspect of the subject are given in the School of Education.

I. *The Doctor's degree.*—The courses expected of candidates for a Ph.D. degree are as follows (some undergraduate courses being included):

Where Geography is the Major subject:

1. In the Department of Geography, Courses 7, 9, 10, 12, 14, 16, and at least six Majors of advanced individual work, a part of which may be in the line of the thesis.

2. In the Department of Geology, Courses 7, 8, 10, 15 (DMj), 16, 18, 20, 28, and 29.

3. In the Department of Biology, a general knowledge of Zoögeography and Geographic Botany.

4. In the Department of History, a general knowledge of Modern History, and a thorough knowledge of the history of some period and region where geographic influences were an important factor in its course.

5. In the Department of Political Economy, Commercial Geography, and the Elements of Political Economy.

A thorough college course, of not less than one year, in Physics and in Chemistry.

Where Geography is the minor subject, nine Majors of work, which must include all those specified by number under 1 above.

II. *The Master's degree.*—The courses expected of a candidate for a Master's degree, if all his work is taken in the Department, include eight majors, together with a dissertation. These courses must include Courses 4, 5, 7, 10, and 12, Course 15 in Geology, and courses in the geographic phases of Zoölogy and Botany.

COURSES OF INSTRUCTION

For Senior College and Graduate Students

5. **Principles of Geography.**—The meaning and scope of geography; the relation of the science to other subjects; the distribution and characteristics of land forms and climates; the distribution and utilization of natural resources, such as soils, minerals, plants, and animals, with reference to man's distribution and industrial and social development; an application of the principles developed to the interpretation of type regions. Mj. Summer Quarter; 11:30
Assistant Professor Goode

7. **Influence of Geography on American History.**—A study of the geographic conditions which have influenced the course of American history. Their importance as compared with one another, and their importance as compared with non-geographic factors. Familiarity with the leading events of American history, and with the elements of the physiography of the United States, is presupposed. Primarily for teachers of geography and history.
Mj. Summer Quarter
Mj. Winter Quarter; 11:00
Mr. Barrows

10. **Economic Geography of North America.**—A study of the natural resources of the continent, as factors in its economic development. The geology, the physiography and the climate, treated as factors determining or affecting the location and utilization of mineral resources, arable and grazing lands, forests, etc. The influence of these various resources on the economic development of the continent.
Mj. Autumn Quarter; 8:30
Assistant Professor Goode

12. **Economic Geography of Europe.**—Outline same as for Course 10, together with a study of the effects of the natural resources on the distribution and economic development of racial stocks. Mj. Spring Quarter; 9:30
Assistant Professor Goode
[May not be given in 1908]

13. **Commercial Geography** (Advanced Course).—The conditions of commerce; the regional differences of endowment; the organization of industry; government participation; the means of transportation and of communication; commercial tendencies. The chief commodities entering into commerce; the significance of the soil; the sources of power; the conditions determining the character and location of the leading manufactures. Primarily for teachers.
Mj. Summer Quarter; 1:30
Assistant Professor Goode

14. **Economic Geography of Tropical Countries.**—Outline similar to that for Course 10. Especial attention will be given to South America, the West Indies, and the Philippines. The course will also include a consideration of the results likely to be achieved by the introduction of scientific methods of sanitation and industry, from countries in temperate latitudes. Mj
Assistant Professor Goode
[Not to be given in 1908]

16. **The Geographic Problems of the Orient.**—The significance of the location of the region with reference to the *Hinterland* and to the ocean; the physiography of the realm; the natural resources; racial characteristics; the reasons underlying western interest and aggression.

This course is developed mainly with reference to China and Japan.

ASSISTANT PROFESSOR GOODE

[Not to be given in 1908]

17. **The Principles of Anthropogeography.**

Mj. Spring Quarter

DR. SEMPLE

30, 31, 32. **Research Courses.**—Advanced work on selected topics will be arranged with individual students prepared to undertake semi-independent work. Mj or DMj. Each Quarter

PROFESSOR SALISBURY

ASSISTANT PROFESSOR GOODE AND MR. BARROWS

For courses in **Physical Geography,** see Department of Geology.
For **Zoögeography,** see Department of Zoölogy.
For **Geographic Botany,** see Department of Botany.
For **normal** courses, see College of Education.

XXII. THE DEPARTMENT OF ZOÖLOGY

OFFICERS OF INSTRUCTION

CHARLES OTIS WHITMAN, PH.D., LL.D., *Professor and Head of the Department of Zoölogy; Curator of the Zoölogical Museum.*
FRANK RATTRAY LILLIE, PH.D., *Professor of Embryology; Assistant Curator of the Zoölogical Museum.*
CHARLES MANNING CHILD, PH.D., *Assistant Professor of Zoölogy.*
WILLIAM LAWRENCE TOWER, S.B., *Assistant Professor of Zoölogy.*
REUBEN MYRON STRONG, PH.D., *Instructor in Zoölogy.*
VICTOR ERNEST SHELFORD, S.B., *Associate in Zoölogy.*

SAMUEL WENDELL WILLISTON, M.D., PH.D., *Professor of Paleontology; Lecturer on Evolution of Vertebrates* (1907–8).
JOHN THOMAS PATTERSON, S.B., *Laboratory Assistant in Zoölogy.*

FELLOWS, 1906-7

MARY PUTNAM BLOUNT, S.B. CHARLES ALBERT SHULL, S.B.

INTRODUCTORY

The courses in Zoölogy aim to meet the needs of a general education, and at the same time to give a thorough preparation for a scientific career. The leading purpose of such courses is to make clear the subject-matter of the science, its principal subdivisions, its scope, methods, and history, and its relations to other sciences. For advanced work in Zoölogy students must early acquire a reading knowledge of German and French, as a knowledge of these languages is assumed. Besides the cognate biological sciences a good working knowledge of Physics and Chemistry is necessary.

The courses may be thus classified:

I. *Introductory.*—Courses 1, 2, and 3 (see College Circular) are designed for beginners. Course 3 is introductory Field Work, adapted to the needs of teachers.

II. *Field Work and Life-Histories.*—Courses 3, 13, and 14, while accompanied with lectures and laboratory exercises, are devoted primarily to the study of *living* animals, habits, instincts, and modes of life.

III. *Comparative Anatomy.*—Courses 5 and 6, dealing with invertebrates, and 10 (see College Circular) 11, and 12, with vertebrates, are intended to meet the needs of students who are to specialize in Zoölogy Paleontology, Anatomy, or Physiology.

IV. *Cytology* is fundamental for every line of advanced work in Zoölogy. Course 16 deals with methods and principles, and Course 18 with the developmental side of the subject.

V. *Embryology* is a central branch in Zoölogy — necessary as a preparation for Paleontology and for

Evolution studies in general. Courses 18, 19, and 20 serve as an introduction, and prepare the way for research in courses 40 to 45.

VI. *Evolution.*—Courses 30, 31, and 32 serve as an introduction to the study of problems in evolution.

VII. *Research.*—Courses 40 to 45 are for students and Fellows who are beginning, or who are already advanced in, original work.

VIII. *The Seminar.*—The Seminar (49, 50, 51) deals with problems and topics of general interest, especially to research students. It is open to all students in the Department.

COURSES OF INSTRUCTION

Senior College Courses

10. **Comparative Anatomy and Zoölogy of the Vertebrates.**—A laboratory study of types, with dissections, followed by lectures with demonstrations of the comparative anatomy of organs, classification, range of distribution, and evolution of the vertebrates, living and extinct, fishes, and amphibians. Mj

Professor Williston

Prerequisite: *Course 2 or equivalent.*

[Not to be given in 1907]

11. **Comparative Anatomy and Zoölogy of the Vertebrates.**—Continuation of Course 10 (Reptiles, Birds).

Mj. Winter Quarter; Mon.–Fri., 3:00–5:00

Professor Williston

[Not to be given in 1907]

12. **Comparative Anatomy and Zoölogy of the Vertebrates.**—Continuation of Course 11 (Mammals).

Mj. Spring Quarter; Mon.–Fri., 3:00–5:00

Professor Williston

[Not to be given in 1907]

12A. **Comparative Anatomy of the Vertebrates.**—(Brief Course) a laboratory study of types with dissections followed by lectures and demonstrations.

Mj. Winter Quarter; Mon.–Fri., 3:00–5:00

Professor Williston

13. **Field Zoölogy** (Advanced Course).—A study of the local fauna with especial reference to ecological distribution and animal associations.

Lectures: Wed., Fri., 2:00.

Laboratory or field work: Mon. and Tu., 2:00–4:00, and Saturday morning.

DM. Second Term; Summer Quarter

Lectures: Mon. and Fri., 1:30.

Laboratory or field work: Afternoons and Saturday morning.

Mr. Shelford

14. **Studies of Birds.**—This course will include studies of the structures, habits, and colors of birds.

Mj or DMj. Spring Quarter

Lectures: Tu. and Th., 3:00.

Laboratory: Mon. and Fri., 2:00–4:00.

Field work as arranged.

Dr. Strong

20. **Vertebrate Embryology.**—Birds and mammals. Lectures, demonstrations, and laboratory work.

Mj or DMj. Spring Quarter

Lectures: Th., Fri., Wed. 2., 8:30.

Laboratory:

Sec. *a:* Th. and Fri., 2:00, and quiz. Wed. at 2:00.

Sec. *b.* quiz. Wed., 2:00, and Th. and Fri. 2:00–5:00.

Professor Lillie, Assistant Professor Tower and Assistants

Prerequisite: *Courses 2, and Anatomy 10, 11 and 12, or their equivalents.*

21. **Embryology.**—Lectures, demonstrations, and laboratory work. Mj. Summer Quarter

Lectures: Mon.–Fri., 8:00.

Laboratory: 12 hours; mornings.

Mr. Riddle

29. **Marine Biology** at the Marine Biological Laboratory at Wood's Holl, Mass. Credit is given at the University of Chicago for courses taken at this laboratory. DMj. Summer Quarter

Professors Whitman and Lillie

Graduate Courses

30. **Animal Evolution.**—History of the development of the idea of evolution, from the earliest times to the publication of the *Origin of Species.* Darwin: establishment of the doctrine of common descent. Modern theories: criticism and comparison. Reading, reports.

Mj or DMj. Autumn Quarter

Lecture: Tu., Th., Sat., 8:30.

Prerequisite: *A general elementary knowledge of biological facts and theories.*

Assistant Professor Tower

31. **Animal Evolution.**—The facts and theories of variation and heredity considered with refer-

ence to their part in animal evolution. Readings and reports. Mj or DMj. Winter Quarter
ASSISTANT PROFESSOR TOWER
Lectures: Tu., Th., Sat., 8:30.
Prerequisite: *As in Course 30.*

32. **Animal Evolution.**—The factors, selection, segregation, isolation, and orthogenesis, considered with reference to the conservation of new characters and races; the effects of environment upon animal transmutation, origin of new characters, races, and species. Readings and reports.
Mj or DMj. Spring Quarter
Lectures: Tu., Th., Sat., 8:30.
ASSISTANT PROFESSOR TOWER
Prerequisite: *As in Course 30.*

36. **Physiology of Development.**—The lectures will deal with general and experimental embryology, and with the mechanics of embryonic development, including: the history of the germ-cells; fertilization; the rôle of cell-division in development; intra-cellular differentiation; correlative differentiation of organs and theories of heredity. The laboratory work will be on the early development of selected types of invertebrates.
Mj or DMj. Autumn Quarter
Lectures: Mon., Wed., Fri., 8:30.
Laboratory: 6 or 16 hours a week.
By special permission the lectures alone may be taken as ½ Mj.
PROFESSOR LILLIE
Prerequisite: *Courses 2 and 19 or 20; Course 16 is desirable.*

37. **Vertebrate Embryology.**—Fishes, amphibia, and reptilia. Lectures, demonstrations, and laboratory work. Mj or DMj. Winter Quarter
PROFESSOR LILLIE
Lectures: Mon., Wed., Fri., 8:30.
Laboratory: 6 or 16 hours a week.

38. **Cytology.**—Morphology and physiology of the cell; cell-division; cytological theories; the cell and the organism; theory and practice of fixation and staining. The lectures will be supplemented by collateral reading and discussions.
Mj or DMj. Spring Quarter
Lectures: Four times a week; hours to be arranged with class.
Laboratory: Afternoons; 8 hrs. a week.
ASSISTANT PROFESSOR CHILD

39. **Regeneration.**—The lectures will deal with the principal facts and problems of regeneration and of form-regulation in general, and will be supplemented by collateral reading and discussions. In the laboratory typical cases of regeneration will be studied. Mj or DMj. Winter Quarter
Lectures: Four times a week; hours to be arranged with class.
Laboratory: Afternoons; 8 hrs. a week.
ASSISTANT PROFESSOR CHILD

40. **Zoölogical Problems.**—At the Marine Biological Laboratory, Wood's Holl, Mass.
2 or 3Mj. Summer Quarter
PROFESSORS WHITMAN AND LILLIE
Prerequisite: Such of the elementary courses as are essential to the special topic undertaken.

41. **Zoölogical Problems.**
DMj. Autumn Quarter
Lectures: 1 hour a week.
Laboratory: 3 hours daily.
PROFESSORS WHITMAN AND LILLIE,
ASSISTANT PROFESSORS CHILD AND TOWER
Prerequisite: *See Course 40.*
(Laboratory fee, $2.50)

42. **Zoölogical Problems**—(continued).
DMj. Winter Quarter
Lectures: 1 hour a week.
Laboratory: 3 hours daily.
PROFESSORS WHITMAN AND LILLIE,
ASSISTANT PROFESSORS CHILD AND TOWER
Prerequisite: *See Course 40.*
(Laboratory fee, $2.50)

43. **Zoölogical Problems**—(continued).
DMj. Spring Quarter
PROFESSORS WHITMAN AND LILLIE,
ASSISTANT PROFESSORS CHILD AND TOWER
Prerequisite: *See Course 40.*
(Laboratory fee, $2.50)

44. **Zoölogical Problems**—(continued).
DMj. Summer Quarter
ASSISTANT PROFESSOR TOWER
Prerequisite: *See Course 40.*
(Laboratory fee $2.50)

49, 50, 51. **Seminar: General Biological Topics.**—Two hours weekly.
Autumn and Winter Quarters; Wed., 3:00-5:00
PROFESSORS WHITMAN AND LILLIE,
ASSISTANT PROFESSORS CHILD AND TOWER

XXIII. THE DEPARTMENT OF ANATOMY

OFFICERS OF INSTRUCTION

ROBERT RUSSELL BENSLEY, A.B., M.B., *Professor of Anatomy.*
CHARLES JUDSON HERRICK, S.M., Ph.D., *Professor of Neurology.*
JOHN GORDON WILSON, A.M., M.B., *Assistant Professor of Anatomy.*
GEORGE ELMER SHAMBAUGH, M.D., *Instructor in Anatomy of the Ear, Nose, and Throat.*
BASIL COLEMAN HYATT HARVEY, A.B., M.B., *Instructor in Anatomy.*
DANIEL GRAISBERRY REVELL, A.B., M.B., *Instructor in Anatomy.*
ELIZABETH HOPKINS DUNN, A.M., M.D., *Assistant in Anatomy.*
EDWIN GARVEY KIRK, S.B., *Assistant in Anatomy.*
EMIL GOETTSCH, Ph.D., *Assistant in Anatomy.*
JOHN SUNDWALL, Ph.D., *Assistant in Anatomy.*

FELLOWS, 1906-7

FRANK ST. SURE, S.B.
JOHN SUNDWALL, S.B., Ph.D.

INTRODUCTORY

The Hull Laboratory of Anatomy of the University of Chicago has been especially fitted out for graduate work, including advanced courses in Human Anatomy and Embryology, as well as original research in these subjects. Opportunities are afforded for Graduate students who wish to pass on to the higher degrees of A.M., S.M., or Ph.D.

COURSES OF INSTRUCTION

PRIMARILY FOR THE SENIOR COLLEGES

1. **Dissection of Arm (Human).**—The student makes a complete dissection of all structures, using atlases and textbooks as guides. The work is largely independent. A dissection must be completed in the Quarter in which it was undertaken. Mj. Autumn Quarter
Repeated in Winter and Spring Quarters
Laboratory: Mon., Fri., 2:00–5:00
ASSISTANT PROFESSOR WILSON, DRS. HARVEY, GOETTSCH, SUNDWALL, AND OTHERS.
(Laboratory fee, $5.00)

2. **Dissection of Leg (Human).**—The arrangements for this course are similar to those for course 1.
Mj. Autumn Quarter
Repeated in Winter and Spring Quarters
(Laboratory fee, $5.00)

3. **Dissection of Head, Neck, and Spinal Column (Human).**—The arrangements for this course are similar to those for course 1.
Mj. Autumn Quarter
Repeated in Winter and Spring Quarters
(Laboratory fee, $5.00)

4. **Dissection of Thorax and Abdomen (Human).**—The arrangements for this course are similar to those for course 1.
Mj. Autumn, Winter, and Spring Quarters
Prerequisite: *Courses 1, 2, and 3.*
(Laboratory fee, $5.00)

5. **Dissection of Abdomen (Human).**—The arrangements for this course are similar to those for course 1.
Mj. Autumn, Winter, and Spring Quarters
Prerequisite: *Courses 1, 2, and 3.*
(Laboratory fee, $5.00)

6. **Human Osteology.**—A systematic study of the human skeleton will be undertaken. The bones of the human body will be drawn, or modeled in clay, in the laboratory. The structure of the composite bones will be considered from the comparative and embryological standpoints.
½Mj. Autumn and Summer Quarters
Lecture: Tu., 8:30.
Laboratory: Tu., 9:30–1:00.
MESSRS. REVELL AND KIRK
(Laboratory fee, $1.25)

7. **Topographical Anatomy.**—A laboratory course in human anatomy, including dissection and the study of models, preparations, and transverse sections. Mj. Summer Quarter
Repeated in Spring Quarter, 1908
ASSISTANT PROFESSOR WILSON
Prerequisite: *Courses 1, 2, 3, 4.*
(Laboratory fee, $5.00)

10. **Splanchnology, Histology, and Cytology.**—A brief course on the structure of the cell and elementary tissues will be followed by a study of the structure of the various viscera.
Mj. Autumn Quarter
Lectures: Mon., Fri., 9:30.

Laboratory: Mon., Fri., 10:30–1:00; Th., 11:00–1:00.

DR. REVELL, MR. KIRK, AND OTHERS
(Laboratory fee, $2.50)

13. **Splanchnology, Histology, and Cytology** (Advanced).—In this course the student will undertake a thorough study of the structure of the important organs. A knowledge of the normal appearance and texture of the organs will be gained by the dissection of fresh specimens, the dissecting microscope being used to supplement the information gained by ordinary methods of dissection. Finally the compound microscope will be employed in the study of prepared sections. ½Mj.or 1Mj. Winter Quarter

Lectures: Wed. and Fri., 9:30.
Laboratory: Th. and Fri., 10:30–1:00.
Wed., 11:00–1:00.

DR. REVELL, MR. KIRK, AND OTHERS
(Laboratory fee, $2.50)

16. **Elementary Neurology.**—An elementary course on the structure of the central nervous system.
Mj. Autumn Quarter

Two lectures.
Seven hours laboratory work.

DR. DUNN

Prerequisite: *Course 10.*
(Laboratory fee, $2.50)

17. **Gross and Microscopic Anatomy of the Human Central Nervous System and Sense Organs.**—This is a required course for Medical students.
Mj. Spring Quarter

Lectures: Mon., Tu., 8:30.
Recitation: Wed., 8:30.
Laboratory: Mon., Tu., and Wed., 11:00–1:00

PROFESSOR HERRICK,
DR. DUNN, AND ASSISTANTS

Prerequisite: *Microscopic Anatomy.*
(Laboratory fee, $2.50)

20. **Anatomy of the Ear, Nose, and Throat.**—Special anatomy for practicing physicians. This course will consist of laboratory work, lectures, and demonstrations of anatomical preparations.
DM. First Term, Summer Quarter

Lectures and Laboratory: Mon., Th., 1:30–4:30.

DR. SHAMBAUGH
(Laboratory fee, $2.50)

23. **Anatomy of the Pharynx and Larynx.**—Special course for practicing physicians, to consist of lectures and laboratory work on the development, gross anatomy, and microscopic anatomy of these organs.
DM. First Term, Summer Quarter

Lectures and Laboratory work: Mon., Tu., Wed., Th., 2:00–5:00.

ASSISTANT PROFESSOR WILSON
(Laboratory fee, $2.50)

PRIMARILY FOR THE GRADUATE SCHOOL

25. **Comparative Neurology.**—The evolution of the architecture and functions of the Vertebrate nervous system. Mj. Autumn Quarter

Two lectures.
Six hours laboratory work.

PROFESSOR HERRICK AND DR. DUNN

Prerequisite: *Course 16 or 17.*
(Laboratory fee, $2.50)

26. **Mammalian Neurology.**—With special reference to the structure of the human brain.
Mj. Winter Quarter

Two lectures.
Six hours laboratory work.

PROFESSOR HERRICK AND DR. DUNN

Prerequisite: *Course 25.*
(Laboratory fee, $2.50)

28. **Neurological Research.**
3Mjs. Autumn, Winter, and Spring Quarters

PROFESSOR HERRICK

Admission to this course will be granted only after consultation with the Professor of Neurology. A good knowledge of general anatomy, physiology, and neurology will be expected.

29. **Neurological Seminar.**
3Mjs. Autumn, Winter, and Spring Quarters
Th., 4:00–6:00. PROFESSOR HERRICK

30. **Comparative Anatomy, Histology, and Histogenesis of the Organs of Secretion and Absorption.**
3Mjs. Autumn, Winter, and Spring Quarters

Lectures and Laboratory work: Mon.–Fri., 2:00–4:00.

PROFESSOR BENSLEY

Prerequisite: *Human or Comparative Anatomy and Histology.*
(Laboratory fee, $2.50 per Mj.)

31. **Gross and Microscopic Structure of the Organs of Special Sense.**
2Mjs. Autumn and Winter Quarters

Lectures and Laboratory work: Mon.–Th., 11:00–1:00.

ASSISTANT PROFESSOR WILSON

Prerequisite: *Same as for Course 30.*
(Laboratory fee, $2.50 per Mj.)

32. **Organs of Internal Secretion.**
Mj. Winter Quarter

Lectures and Laboratory work: Mon.-Th., 8:30-10:30.

DR. HARVEY

Prerequisite: *Same as for Course 30.*

(Laboratory fee, $2.50)

33. **Morphology of the Blood and Blood-forming Organs.** Mj. Spring Quarter

Lectures and Laboratory work: Tu.-Fri., 8:30-10:30.

DR. SUNDWALL

Prerequisite: *Same as for Course 30.*

(Laboratory fee, $2.50)

34. **Cytology and Histology.** 2Mjs. Autumn and Winter Quarters

Two lectures.

Six hours Laboratory work.

DR. REVELL

Prerequisite: *Same as for Course 30.*

(Laboratory fee, $2.50 per Mj.)

41. **Research Work.**—The laboratory is equipped for the original investigation of anatomical problems. Suitably trained and endowed students who have the time to do such work, will be encouraged to undertake it. 2 to 4Mj

PROFESSOR BENSLEY

42 **Seminar.**—A limited number of students can, by special arrangement, be admitted to a seminar, in which subjects of current interest in Gross or Microscopic Anatomy will be discussed.

1-2Mj. Autumn and Winter Quarters, Fri., 4:00. PROFESSOR BENSLEY

XXIV. THE DEPARTMENT OF PHYSIOLOGY

(Including Physiological Chemistry and Pharmacology)

OFFICERS OF INSTRUCTION

———————————*Professor and Head of the Department of Physiology.*
ALBERT PRESCOTT MATHEWS, PH.D., *Professor of Physiological Chemistry.*
DAVID JUDSON LINGLE, PH.D., *Assistant Professor of Physiology.*
SAMUEL ALEXANDER MATTHEWS, M.D., *Assistant Professor of Experimental Therapeutics.*
WALDEMAR KOCH, PH.D., *Assistant Professor of Physiological Chemistry.*
ANTON JULIUS CARLSON, A.M., PH.D., *Assistant Professor of Physiology.*
ALBERT WOELFEL, M.D., *Associate in Physiology.*
FRANK HENRY PIKE, A.B., *Associate in Physiology.*
JAMES RICHARD GREER, S.B., *Assistant in Physiology.*
DENNIS EMERSON JACKSON, A.B., *Assistant in Pharmacology.*
EARL BALL, *Mechanical Assistant.*

FELLOWS, 1906-7

LIBORIS GOMEZ, A.B. FRANK CHRISTIAN BECHT, S.B.
HERBERT HORACE BUNZEL, S.B.

COURSES OF INSTRUCTION

12. **Physiology of Blood, Circulation, and Respiration.** Mj. Spring Quarter

Lectures: Two a week.

PROFESSOR ———

Recitations and conference: One hour a week.

ASSISTANT PROFESSORS LINGLE AND CARLSON AND DR. WOELFEL

Laboratory: 6 hrs. a week.

ASSISTANT PROFESSOR CARLSON, DR. WOELFEL, AND MESSRS. PIKE AND GREER

Prerequisite: *Physiological Chemistry.*

(Laboratory fee, $2.50)

*13. **Physiology of Digestion, Metabolism, Absorption, Secretion, Muscles, and Heat.** 1½Mj. Autumn Quarter

PROFESSOR ———

Lectures: Three a week.

Recitations and conference: Two hrs. a week.

ASSISTANT PROFESSORS LINGLE AND CARLSON, DR. WOELFEL, AND MR. PIKE

Laboratory: 7 hours a week.

ASSISTANT PROFESSOR CARLSON, DR. WOELFEL, AND MESSRS. PIKE AND GREER

Prerequisite: *Physiology 12.*

(Laboratory fee, $2.50)

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*One of the Courses 12, 13, or 14 will be repeated in the Summer Quarter by Professor ——— and Mr. Pike. The choice will depend upon the requirements of the majority of the applicants.

*14. **Physiology of the Nervous System and the Senses.** Mj. Winter Quarter
Lectures: Two a week.
ASSISTANT PROFESSOR CARLSON
Recitations and Conference: Two a week.
ASSISTANT PROFESSOR CARLSON, DR. WOELFEL, AND MR. PIKE
Laboratory: 6 hrs. a week.
ASSISTANT PROFESSOR CARLSON, DR. WOELFEL, AND MESSRS. PIKE AND GREER
(Laboratory fee, $2.50)

15. **Special Physiology of Mammals.**—Including the repetition of experiments not given in the general courses. Saturdays, 8:00–12:30
½Mj. Summer Quarter
MR. PIKE
Repeated Autumn Quarter.
Prerequisite: *Physiology 12, or 13, or 14, or equivalent.*
(Laboratory fee, $1.25)

16. **Advanced Physiology of the Central Nervous System.**
Mj. Spring Quarter
ASSISTANT PROFESSOR CARLSON
Prerequisite: *Physiology 14.*

†19. **Physiological Chemistry.**—The chemistry of foods; of digestion; and the general chemistry of the cell. 1½Mj. Autumn Quarter
Lectures: Three a week.
PROFESSOR MATHEWS
Recitations: Two a week.
Laboratory: 6 hrs. a week.
PROFESSOR MATHEWS AND MESSRS. JACKSON AND BUNZEL
Prerequisite: *General Chemistry and Quantitative Analysis; elementary Organic Chemistry. Quantitative Analysis is strongly recommended.*
(Laboratory fee, $3.75)

†20. **Physiological Chemistry.**—Chemistry in metabolism, blood, tissues, and excretions.
1½ Mj. Winter Quarter
Lectures: Three a week.
ASSISTANT PROFESSOR KOCH
Recitations: Two a week.
Laboratory: 6 hrs. a week.
ASSISTANT PROFESSOR KOCH AND MESSRS. JACKSON AND BUNZEL
Prerequisite: *The same as Course 19.*

21. **Pharmacology.** 1½Mj. Spring Quarter
Lectures: Three a week.
PROFESSOR MATHEWS AND ASSISTANT PROFESSOR KOCH
Recitations: Two a week.
Laboratory: 7 hrs. a week.
PROFESSOR MATHEWS AND ASSISTANT PROFESSOR KOCH
(Laboratory fee, $3.75)

PRIMARILY GRADUATE COURSES

30. **The Cells and Liquids of the Body in Their Physico-Chemical Relations.**
Mj. Autumn Quarter
Repeated in the Summer Quarter
PROFESSOR ———
(Laboratory fee, $2.50)

31. **Special Physiology of the Circulation.**
Mj. Winter Quarter
PROFESSOR ———
(Laboratory fee, $2.50)

32. **Animal Electricity.** Mj. Spring Quarter
PROFESSOR ———
(Laboratory fee, $2.50)

36. **The Action of Drugs on Mammals.**—An experimental course to a small number of students only. Mj. Autumn Quarter
PROFESSOR MATHEWS

37. **Methods of Quantitative Analysis in Physiologica Chemistry as Applied to Plant and Animal Tissues.** Mj. Spring Quarter
ASSISTANT PROFESSOR KOCH

41. **Seminar.**—At times to be announced.
PROFESSOR ———

42. **Research Work in Physiological Chemistry.**
Mj or DMj. Throughout the year
PROFESSOR MATHEWS AND ASSISTANT PROFESSOR KOCH

43. **Research Work in Pharmacology.**
Mj or DMj. Throughout the year
PROFESSOR MATHEWS AND ASSISTANT PROFESSOR KOCH

44. **Research Work in Physiology.**
Mj or DMj. Throughout the year
PROFESSOR ——— AND OTHERS

51. **General and Comparative Physiology** at the Marine Laboratory, at Wood's Holl, Mass.— Credit is given by the University of Chicago for courses taken at this Laboratory.
DMj. Summer Quarter
PROFESSOR MATHEWS, ASSISTANT PROFESSOR CARLSON, AND OTHERS

* See footnote on preceding page.
† Either Course 19 or 20 may be counted as required credit in Physiological Chemistry for medical students.

XXVI. THE DEPARTMENT OF PALEONTOLOGY

OFFICERS OF INSTRUCTION

SAMUEL WENDELL WILLISTON, M.D., Ph.D., *Professor of Paleontology.*

FELLOW, 1906-7

ROY LEE MOODIE, A.B.

COURSES OF INSTRUCTION

10, 11, 12. **Special Research in Vertebrate Paleontology.**—Hours arranged to suit individual students.

Mj or DMj. Winter, Spring, and Summer Quarters Professor Williston

Prerequisite: *Courses 1 and 2; or 10, 11, and 12 Department of Zoölogy; or equivalents.*

Note.—The library at the command of the research student in Vertebrate Paleontology is unexcelled elsewhere in America.

13. **Field-Work.**—One or more students may accompany field expeditions, by special arrangements with the head of the Department.

DMj. Summer or Autumn Quarters
Professor Williston and Assistant

Prerequisite: *Courses 1, and 2; or Courses 10, 11 and 12, Department of Zoölogy.*

For courses treating of the extinct vertebrates from the biological side, see Department of Zoölogy.

XXVII. THE DEPARTMENT OF BOTANY

OFFICERS OF INSTRUCTION

JOHN MERLE COULTER, A.M., Ph.D., *Professor and Head of the Depariment of Botany.*
CHARLES REID BARNES, A.M., Ph.D., *Professor of Plant Physiology.*
CHARLES JOSEPH CHAMBERLAIN, A.M., Ph.D., *Assistant Professor of Morphology and Cytology.*
HENRY CHANDLER COWLES, Ph.D., *Assistant Professor of Ecology.*
WILLIAM JESSE GOAD LAND, Ph.D., *Associate in Morphology.*
HEINRICH HASSELBRING, Ph.D., *Assistant in Plant Pathology.*
WILLIAM CROCKER, Ph.D., *Assistant in Plant Physiology.*
LEONAS LANCELOT BURLINGAME, A.B., *Assistant in Morphology.*

FELLOWS, 1906-7

REGINALD RUGGLES GATES, A.B. RHEINHARDT THIESSEN, A.B.
SHIGEO YAMANOUCHI, Ph.D.

INTRODUCTORY

While the Department keeps in view the usefulness of botany in contributing to a liberal education, its method is the same in aiding general culture as in training investigators. Beginning with the fundamentals of biology from the standpoint of botany, the courses gradually differentiate into more and more special lines until finally they become adapted to the needs of the individual investigator. The method of the Department is the careful, individual examination of the facts upon which the body of the science rests.

The Department occupies the Hull Botanical Laboratory. At present there is provision of apparatus books, periodicals, and collections, for work in morphology, cytology, physiology, ecology, and pathology. In addition to the facilities belonging to the University, the conveniently situated grounds and greenhouses of Jackson, and Washington Parks are always available for material, while the Crerar and Newberry Libraries are easily accessible.

The library contains a good representation of standard and current botanical literature, to which constant additions are being made. Complete files of the more important serials have been secured, and nearly all cur-

rent botanical journals are received through exchange or purchase. Special care will be taken to secure all necessary literature for research students.

The *Botanical Gazette*, a journal now in its forty-third volume, is the property of the University, and while in no sense an organ of the Department, it is the natural channel for the publication of much of its work. The Department has also begun a series of *Contributions from the Hull Botanical Laboratory*, ninety numbers of which have been published.

The Botanical Club consists of the instructors and advanced students of the Department, who meet each week to review important current literature, to present the results of their own research, and to hear visiting botanists. The club is made an important means of supplementary training for the special student of botany.

COURSES OF INSTRUCTION

The laboratory fees named include the use of microscope and reagents and plant material. In addition a breakage ticket is usually needed.

In courses demanding the use of apparatus a laboratory fee of $2.50 is charged.

The courses fall naturally into groups under the following classification:

I. *General and Introductory*.—Courses 1, 2, and 3 are intended to give a general preparation for biological work in the field of botany. Each course is complete in itself, but Course 1 is a necessary introduction to either 2 or 3, and is the course to be selected by the general student who can give but a single quarter to the subject. For this reason Course 1 is given each quarter except the Winter. Course 6 is intended to correct the tendency of students of morphology to know only laboratory material, and to be ignorant of live plants and their habitats. Courses 1, 2, 3, and 6 are especially recommended to teachers in the public schools.

Courses 7, 8, and 9 constitute a series intended to give a thorough account of the principal groups of plants, their morphology, and a somewhat detailed outline of their classification. These courses may be taken in any sequence, although the subject develops most naturally if they are taken in the order of their numbering. They are required of all students who intend to do advanced work in the department, and are adapted to all who desire a thorough elementary knowledge of plants. Unless all three are taken, Course 1, or its equivalent, is prerequisite for any of them.

Course 4 is required of all students who purpose entering any of the courses in special morphology.

II. *Special Morphology*.—The courses enumerated under this head (10–15) expand the work of Courses 7, 8, and 9, and consider in detail the different groups of plants there studied. They are intended to furnish the training necessary for independent research in morphology. Courses 10, 12, and 13 make up a year's work offered in alternate years with Courses 11, 14, and 15. Course 19 is for research students and demands familiarity with German and French.

III. *Physiology*.—Courses 20–22 include work in the fundamental principles of Physiology and constitute a continuous course (though they may be elected separately and in any order) prerequisite to research work in Physiology. The laboratory observations in these courses sometimes require work at irregular and unusual hours which those electing them should be willing to give. Students should be able to read German readily, and must be acquainted with the fundamental principles of physics and inorganic chemistry. Physics 1, 2, 3 and Chemistry 1, 2, 3, 4 are highly desirable antecedents, and may in future be made prerequisites.

IV. *Ecology*.—Courses 30, 32, and 34 constitute a series, but are independent of one another, and hence may be elected separately. The ability to read German is a decided advantage in all the courses in Ecology.

V. *Bacteriology*.—Students specializing in Botany are advised to take at least two majors of Bacteriology (Courses 1B and 4).

For elementary courses see *The Circular of Information: The Colleges.*

10. **Special Morphology of Algae.***—Critical studies of typical algae, accompanied by lectures upon the morphology and relationships of the group.
Mj or DMj. Autumn Quarter
Lectures: Mon., Wed., 9:30.
Laboratory: Tu., Th., Fri., 8:30–10:30.
ASSISTANT PROFESSOR CHAMBERLAIN
Prerequisite: *Courses 4 and 7.*
(Laboratory fee, $2.50)

11. **Special Morphology of Fungi.***—A study of the morphology and relationships of the fungi, including practice in the methods of growing and studying fungi in artificial cultures, and trips

* Courses 10, 12, 13 are offered in alternate years with Courses 11, 14, 15.

for collecting and recognizing these plants in the field. Mj or DMj. Autumn Quarter, 1908
Lectures: Mon., Wed., 9:30.
Laboratory: Tu., Th., Fri., 8:30–10:30.
DR. HASSELBRING
Prerequisite: *Courses 4 and 7.*
(Laboratory fee, $2.50)

12. **Special Morphology of Bryophytes.*** — Critical studies of typical liverworts and mosses, accompanied by lectures upon their morphology, relationships, and origin.
DMj. Summer and Winter Quarters
Lectures: Mon., Wed., 9:30.
Laboratory: Tu., Th., Fri., 8:30–10:30.
PROFESSOR BARNES AND DR. LAND
Prerequisite: *Courses 4 and 8.*
(Laboratory fee, $2.50)

13. **Special Morphology of Pteridophytes.***— Similar in method and purpose to Course 12, the lectures also discussing the relation of the group to Spermatophytes. DMj. Spring Quarter
Lectures: Mon., Wed., 9:30.
Laboratory: Tu., Th., Fri., 8:30–10:30.
PROFESSOR COULTER AND
ASSISTANT PROFESSOR CHAMBERLAIN
Prerequisite: *Courses 4 and 8.*
(Laboratory fee, $2.50)

14. **Special Morphology of Gymnosperms.***— Critical studies of the gymnosperm types are made, and a course of lectures discusses the morphology, genetic relationships, and origin of the group, both ancient and modern.
DMj. Winter Quarter, 1909
Lectures: Mon., Wed., 9:30.
Laboratory: Tu., Th., Fri., 8:30–10:30
PROFESSOR COULTER AND
ASSISTANT PROFESSOR CHAMBERLAIN
Prerequisite: *Courses 4 and 9.*
(Laboratory fee, $2.50)

15. **Special Morphology of Angiosperms.*** — A continuation of Course 14, treating monocotyledons and dicotyledons. DMj. Spring Quarter, 1909
Lectures: Mon., Wed., 9:30.
Laboratory: Tu, Th., Fri., 8:30–10:30.
PROFESSOR COULTER AND
ASSISTANT PROFESSOR CHAMBERLAIN
Prerequisite: *Courses 4 and 9.*
(Laboratory fee, $2.50)

17. **Cytology.**—This course deals with the structure and life-history of the plant cell. Special attention will be given to the bearing of cytology upon theories of heredity and evolution. Designed for research students.
Mj. Summer Quarter
Lectures: Mon. and Wed., 8:00.
Laboratory: Tu., Th., Fri., 8:00–10:00.
ASSISTANT PROFESSOR CHAMBERLAIN
Prerequisite: *Course 4.*
(Laboratory fee, $2.50)

19. **Research in Morphology.**—Only those students will be admitted to this work whose training in technique and special morphology enables them to be independent. Mj or DMj
Throughout the year.
PROFESSORS COULTER AND BARNES, AND
ASSISTANT PROFESSOR CHAMBERLAIN
(Laboratory fee, $2.50)

20. **Plant Physics.**—This course is designed to acquaint the student with the plant processes which are essentially physical, such as maintenance of bodily form, turgor, absorption, movement of substances in the body, and transpiration. Mj or DMj. Autumn Quarter
Lectures: Mon., Wed., 3:00.
Laboratory: Tu., Th., Fri., 2:00–4:00.
PROFESSOR BARNES AND DR. CROCKER
Prerequisite: *Course 2*, Desirable antecedents: *Physics, 1, 2, 3, 11; Botany, 3, 5, 7, 8, 9.*
(Laboratory fee, $2.50).

21. **Plant Chemics.** — A continuation of Course 20, devoted to the study of metabolism, including the manufacture, digestion, and assimilation of foods; respiration; waste products.
Mj or DMj. Winter Quarter
Lectures: Mon., Wed., 3:00.
Laboratory: Tu., Th., Fri., 2:00–4:00.
PROFESSOR BARNES AND DR. CROCKER
Prerequisite: *Course 2.* Desirable antecedents: *Chemistry 1, 2, 3, 4; Botany 20.*
(Laboratory fee, $2.50)

22. **Growth and Movement.** — A continuation of Courses 20 and 21. The phenomena of growth and movement will be examined with especial reference to the influence of external agents upon them through irritability.
Mj or DMj. Spring Quarter
Lectures: Mon., Wed., 3:00.
Laboratory: Tu., Th., Fri., 2:00–4:00.
PROFESSOR BARNES AND DR. CROCKER
Prerequisite: *Course 2.* Desirable antecedents: *Courses 20, 21.*
(Laboratory fee, $2.50)

* See footnote on preceding page.

29. **Research in Physiology.**—Requires special training in physiology and the fundamental physics and chemistry. Registration only after consultation.

PROFESSOR BARNES

(Laboratory fee, $2.50)

30. **Ecological Anatomy.** — Plant tissues from the standpoint of origin and function; follows or runs parallel with Course 3.

Mj. Autumn Quarter

Lectures: Tu., Th., 11:00.

Laboratory: Mon., Wed., Fri., 11:00–1:00.

ASSISTANT PROFESSOR COWLES

Prerequisite: *Courses 1, 2, 3.*

(Laboratory fee, $2.50)

34. **Physiographic Ecology.** — Origin, development, and death of the various plant associations, especially such as are found in the United States and Canada. Mj. Spring Quarter

Lectures: Mon. and Fri., 4:00.

Field-work: Wed. afternoon and all day Sat.

ASSISTANT PROFESSOR COWLES

Prerequisite: *Course 3, Physiography,* and preferably *Geographic Geology.*

36. **Field Ecology.**—Designed to supplement the local work in Ecology at the University. The whole time of the student will be required while in the field; the remainder of the time may be devoted to the preparation of a report. M, DM, or 3M for a term's work; Mj., DMj., or 3Mj., for a quarter's work, depending upon the quantity and quality of the work accomplished.

Summer Quarter: First Term in Oregon, Washington, and British Columbia; Second Term in Alaska.

Winter Quarter: First Term, in Southern Florida.

ASSISTANT PROFESSOR COWLES

38. **Seminar in Ecology.**—This course is intermediate between Courses 30–35 and research work. In general, the Seminar work for each Quarter will run parallel with the Ecological Course (30–34) given at the time. Mj or DMj

ASSISTANT PROFESSOR COWLES

39. **Research in Ecology.**—This course requires special training in ecology, and in related lines of study, especially geology and plant physiology.

Mj or DMj

ASSISTANT PROFESSOR COWLES

40. **Elementary Plant Pathology.**—A study of the life-histories of the commoner forms of parasites together with their physiology and their pathological effect on the host plants. Special attention will be given to the relation between parasite and host. Field trips for recognizing and collecting material. Mj. Autumn Quarter

Lectures: Tu., Th., 3:00.

Laboratory: Mon., Wed., Fri., 2:00–4:00.

DR. HASSELBRING

Prerequisite: *Courses 2 and 6 or equivalents.*

XXVIII. THE DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

OFFICERS OF INSTRUCTION

LUDVIG HEKTOEN, M.D., *Professor of Pathology, and Head of the Department of Pathology and Bacteriology.*

EDWIN OAKES JORDAN, PH.D., *Professor of Bacteriology.*

HARRY GIDEON WELLS, PH.D., M.D., *Assistant Professor of Pathology.*

PRESTON KYES, A.M., M.D., *Assistant Professor of Experimental Pathology.*

HOWARD TAYLOR RICKETTS, M.D., *Assistant Professor of Pathology.*

NORMAN MACLEOD HARRIS, M.B., *Assistant Professor of Bacteriology.*

BROWN PUSEY, M.D., *Instructor in the Pathology of the Eye.*

THOR ROTHSTEIN, M.D., *Instructor in Neuropathology.*

——————— *Assistant in Pathology.*

PAUL GUSTAV HEINEMANN, S.B., PH.D., *Assistant in Bacteriology.*

MARY HEFFERAN, PH.D., *Curator of the Bacteriological Museum.*

FELLOWS, 1906-7

ROBERT LOUIS BENSON, A.B., A.M.

HAROLD EVERETT EGGERS, S.B., A.M.

HERBERT MARCUS GOODMAN, S.B. (Bacteriology.)

BENJAMIN TAYLOR TERRY, A.M., M.D.

INTRODUCTORY

The courses offered by the Department include such as cover the required work in Pathology and Bacteriology in the curriculum of the first two years in the study of Medicine, as well as advanced courses arranged for those desiring a more extended knowledge of the subjects, and for those wishing to qualify themselves for research.

The Department possesses all necessary equipment for pathologic and bacteriological work. There is a good museum for teaching purposes, and an ample special library containing complete files of the important serials. Sufficient material and apparatus for advanced work and special research are provided.

For each Major or Double Minor Course requiring laboratory work the laboratory fee is $2.50.

COURSES OF INSTRUCTION

4. **Advanced Bacteriology.**—Open to a limited number of specially prepared students and graduates in medicine. Lectures on specially selected topics. Repeated each Quarter. Hours to be arranged.

PROFESSOR JORDAN
AND ASSISTANT PROFESSOR HARRIS

5. **Public Hygiene.**—The applications of Bacteriology to municipal hygiene. Water supply, food supply, sewage disposal, etc.

½Mj. Winter Quarter
PROFESSOR JORDAN

GRADUATE COURSES

8. **Pathology of the Eye.**—Special advanced pathology for practicing physicians and advanced students. Hours arranged for each student.

DM. First Term, Summer Quarter
DR. PUSEY
(Laboratory fee, $2.50)

9. **Advanced Pathology.**—Open to a limited number of students who have credit in general pathology. Laboratory work will be given in pathological technique, the study and recording of autopsies, and special pathological material. Hours arranged for each student. Weekly conferences.

Mj. Each Quarter
ASSISTANT PROFESSOR WELLS
OR ASSISTANT PROFESSOR RICKETTS
(Laboratory fee, $2.50)

10. **Research in Pathology.**—Open to a limited number of specially qualified students and graduates in medicine. Hours to be arranged for each student. Mj or DMj. Each Quarter

PROFESSOR HEKTOEN, ASSISTANT PROFESSORS
WELLS AND RICKETTS
(Laboratory fee, $2.50 or $5.00)

11. **Research in Bacteriology.**

Mj or DMj. Each Quarter
PROFESSOR JORDAN
AND ASSISTANT PROFESSOR HARRIS
(Laboratory fee, $2.50)

12A. **Special Pathology.**—A course of recitations with demonstrations of anatomical specimens, on the pathological processes occurring in the different viscera. Hours to be arranged.

½Mj. Summer Quarrer
ASSISTANT PROFESSOR WELLS
Prerequisite: *General Pathology.*

12B. **Laboratory Course.**—Supplementary to 12A. Hours arranged for each student.

½Mj. Summer Quarter
ASSISTANT PROFESSOR WELLS
(Laboratory fee, $1.25)

13A. **Laboratory Course in Immunity.** — Immunization of animals. Cytolysis (including hemolysis and bacteriolysis), agglutination, toxins and antitoxins, etc. An introductory course in serum pathology. Hours to be arranged.

½Mj or M. Each Quarter
ASSISTANT PROFESSOR RICKETTS
Prerequisite: *Bacteriology and Pathology.*
(Laboratory fee, $1.25)

13B. **Lecture Course in Immunity.**—Theories of immunity, the reactions and substances concerned, and the present status of immunity in various infectious diseases. Supplementary to 13A, but may be taken independently. Hours to be arranged. ½M or M. Summer Quarter

ASSISTANT PROFESSOR RICKETTS
Prerequisite: *Bacteriology and Pathology.*

15. **Pathology of the Nervous System.**—Special pathology of the nervous system for practicing physicians and advanced students.

M or DM. First Term, Summer Quarter
DR. ROTHSTEIN

REGISTRATION OF STUDENTS, 1906–7

ABBREVIATIONS.—ACADEMIC RECORD.—In the statement of academic record, *u.*=University; *c.*=College; *s.*=School; *sm.*==Seminary; *hs.*=High School; *a.*=Academy; *inst.*=Institute (or Institution).

PERIOD OF RESIDENCE.—*s*=Resident during Summer Quarter, 1906.—*a*=Resident during Autumn Quarter, 1906.—*w*=Resident during Winter Quarter, 1907.—*sp*=Resident during Spring Quarter, 1907.

†=Graduate students studying abroad.

In the list of subjects following the Academic record the principal subject is placed first. (*fel.*) indicates "fellow" in department.

THE GRADUATE SCHOOLS OF ARTS, LITERATURE, AND SCIENCE

I. DOCTORS OF PHILOSOPHY PURSUING SPECIAL COURSES

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Barnes, Jasper Converse, *s*	A.B. (*Marietta c.*) '90; A.M. (*Ibid.*) '93; Ph.D. (*u. of Wooster*) '00. Political Science, History	Maryville, Tenn.
Breckinridge, Sophonisba Preston, *s*	S.B. (*Wellesley*) '88; S.M. (*u. of Chicago*) '97; Ph.D. (*Ibid.*) '01; J.D. (*Ibid.*). Political Economy, Political Science	Lexington, Ky.
Brown, James, *s*	A.B. (*Yale u.*) '02; A.M. (*Ibid.*) '03; Ph.D. (*Ibid.*) '05. Physics, Chemistry	Jacksonville
Coulter, John Gaylord, *a*	A.B. (*Lake Forest c.*) '95; Ph.D. (*u. of Chicago*) '00. Botany, Geology	Normal
Frank, Tenney, *s*	A.B. (*Kansas u.*) '98; A.M. (*Ibid.*) '99; Ph.D. (*u. of Chicago*) '03. Latin, Greek	Bryn Mawr, Pa.
Hebb, Thomas Carlyle, *s*	A.B. (*Dalhousie u.*) '00; A.M., (*Ibid.*) '01; S.B. (*Ibid.*) '02; Ph.D. (*u. of Chicago*) '04. Physics, Mathematics	Bridgewater, N. S.
Hooker, Henrietta Edgecomb, *s*	Ph.B. (*Syracuse u.*) '87; Ph.M. (*Ibid.*) '88; Ph.D. (*Ibid.*) '89. Botany	Hadley, Mass.
Karslake, William Joy, *s*	S.B. (*Lafayette c.*) '91; S.M. (*Ibid.*) '94; Ph.D. (*Johns Hopkins u.*) '95. Psychology	Iowa City, Ia.
Knowlton, Pitt Gordon, *s*	A.B. (*Oberlin c.*) '90; A.M. (*Harvard u.*) '92; Ph.D. (*Leipsic u.*) '96. Philosophy.	Fargo, N. D.
Miller, Irving Elgar, *s*	A.B. (*u. of Rochester*) '94; A.M. (*Ibid.*) '98; A.M. (*u. of Chicago*) '02; Ph.D. (*Ibid.*) '04. Philosophy, Education	Milwaukee, Wis.
Morris, Wilson Clark, *s*	Ph.B. (*Mt. Union c.*) '01; A.M. (*Illinois Wesleyan u.*) '03; Ph.D. (*Ibid.*) '05. Physics, Mathematics	Delta, Pa.
Myers, Irene Tanner, *s*	Ph.D. (*Yale u.*) '00. History	Lexington, Ky.
McKenzie, Fayette Avery, *s*	S.B. (*Lehigh c.*) '95; Ph.D. (*u. of Pennsylvania*) '06. Sociology	Columbus, O.
Noé, Adolph Charles von, *a*	A.B. (*u. of Chicago*) '00; Ph.D. (*Ibid.*) '05. German	Chicago
Pierce, Paul Skeels, *s*	Ph.B. (*Cornell u.*) '97; Ph.D. (*Yale u.*) '00. Political Economy	Iowa City, Ia.
Robinson, David Moore, *s*	A.B. (*u. of Chicago*) '98; Ph.D. (*Ibid.*) '04. Greek, Latin, Archaeology	Chicago
Rousmanière, Frances Hall, *s*	A.B. (*Wellesley c.*) '00; A.M. (*Ibid.*) '04; Ph.D. (*Radcliffe c.*) '06. Sociology	Boston, Mass.
Scott, John William, *s*	A.B. (*u. of Missouri*) '96; A.M. (*Ibid.*) '97; Ph.D. (*u. of Chicago*) '04. Zoölogy, Physiology	Kansas City, Mo.
Simons, Etoile Bessie, *s*	A.B. (*u. of Kansas*) '95; Ph.D. (*u. of Chicago*) '05. Botany	Chicago
Snow, Laetitia Morris, *s*	A.B. (*Woman's c. of Baltimore*) '95; Ph.D. (*u. of Chicago*) '04. Botany	Farmville, Va.
Speckman, Wesley Nast, *s*	A.B. (*German Wallace c.*) '89; A.M. (*Ibid.*) '98; Ph.D. (*Taylor u.*) '00. Romance	Salina, Kan.
Weida, George Francis, *s*	S.B. (*u. of Kansas*) '96; Ph.D. (*Johns Hopkins u.*) '04. Mathematics, Astronomy	Ripon, Wis.
White, Adeline Ranson, *s*	L.B. (*u. of Wisconsin*) '99. Chemistry, Anatomy	Chicago
Wilson, Thomas James, *s*	A.B. (*u. of Carolina*) '94; A.M (*Ibid.*) '96; Ph.D. (*Ibid.*) '98. Latin	Chapel Hill, N. C.

MEN—18 WOMEN—6 TOTAL—24

II. STUDENTS ADMITTED TO CANDIDACY FOR HIGHER DEGREES

NOTE.—Students are admitted to candidacy for higher degrees by vote of the faculty on approval of the thesis subject and fulfilment of other conditions under the regulations.

Where the name of the student appears in the list with the degree of Ph.D. indicated, it will be understood that the degree was conferred during the academic year.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Andrews, Jessie, *s*	L.B. (*u. of Texas*) '86; Ph.M. (*u. of Chicago*) '06. German	Austin, Tex.
Appleton, Lilla Estelle, *s w*	L.B. (*Oberlin c.*) '86; Ph.B. (*Ibid.*) '90; Ph.M. (*u. of Chicago*) '03; S.M. (*Ibid.*) '04. Education, Psychology	Victory, Vt.
Ashman, George Cromwell, *s*	S.B. (*Wabash c.*) '95; S.M. (*u. of Chicago*) '05. Chemistry	Peoria
Axtell, Harold Lucius, *s*	A.B. (*Kalamazoo c.*) '97; A.B. (*u. of Chicago*) '98; A.M. (*Ibid.*) '00; Ph.D. (*Ibid.*) '06. Latin, Greek	Topeka, Kan.
Barnard, Edith Ethel, *s a w*	S.B. (*u. of Chicago*) '03; S.M. (*Ibid.*) '05. Chemistry, Physics	Chicago
Binford, Raymond, *s*	S.B. (*Earlham c.*) '01; S.M. (*u. of Chicago*) '06. Botany	Guilford College, N. C.
Blair, William Richards, *s*	S.B. (*u. of Chicago*) '04; Ph.D. (*Ibid.*) '06. Physics, Mathematics	Emporia, Kan.
Bleekman, Ruth, *a*	A.B. (*Beloit c.*) '02; A.M. (*u. of Chicago*) '06. English	Sparta, Wis.
Blunt, Katharine, *s a w*	A.B. (*Vassar c.*) '98. Chemistry, Physics (*fel.*)	Rock Island
Boomhour, Joshua Gregory, *s*	A.B. (*Colgate u.*) '97. Physics	Raleigh, N. C.
Börger, Robert Lacy	A.B. (*Florida Agricultural c.*) '93; A.M. (*u. of Chicago*) '05. Mathematics	Lake City, Fla.
Breslich, Ernest Rudolph, *s a w*	A.B. (*German Wallace c.*) '98; A.M. (*u. of Chicago*) '00. Mathematics, Astronomy	Chicago
Bretz, Julian Pleasant, *s*	A.B. (*William Jewell c.*) '99; Ph.D. (*u. of Chicago*) '06. History, Political Science	Chicago
Breyfogle, Caroline May, *a w*	A.B. (*u. of Chicago*) '96. Semitics, Biblical Greek	Columbus, O.
Brookfield, Mary Palmierre, *s*	S.B. (*u. of Chicago*) '02; Ph.M. (*Ibid.*) '06. English, Philosophy	Niagara Falls, Ont.
Brown, Carrie, *a w*	A.B. (*Morningside c.*) '05. Latin, Greek	Sioux City, Ia.
Brown, Frank Clyde, *s*	A.B. (*u. of Nashville*) '93; A.M. (*u. of Chicago*) '02. English	Oxford, Ga.
Brown, John Newman, *s*	A.B. (*Emory and Henry c.*) '04; A.M. (*u. of Chicago*) '06. Latin	Atkins, Va.
Brown, Peter Franklin, *s*	A.B. (*Emory c.*) '90; A.M. (*Ibid.*) '95; A.M. (*u. of Chicago*) '06. English	Savannah, Ga.
Brownlee, Roy Hutchinson, *s a*	A.B. (*Monmouth c.*) '98; Ph.D. (*u. of Chicago*) '06. Chemistry, Physics	Chicago
Brunson, Margaret Lansdell, *s*	A.M. (*Furman u.*) '96; A.M. (*u. of Chicago*) '06. Latin	Sumter, S. C.
Buchanan, Milton Alexander, *s*	A.B. (*Toronto u.*) '01; Ph.D. (*u. of Chicago*) '06. Romance	Zurich, Can.
Byrne, Sister Teresa Regina, *a w*	A.B. (*c. of St. Elizabeth, New Jersey.*) Mathematics, English, Greek	Convent Station, N. J.
Camburn, Bessie Marion, *a w*	A.B. (*Hillsdale c.*) '06. English	Burr Oak, Mich.
Campbell, Sydney Ashton, *s*	A.B. (*Manitoba c.*) '98. English	Evanston
Carson, Charles Macdonald, *s*	A.B. (*Toronto u.*) '98; Ph.D. (*u. of Chicago*) '06. Chemistry, Physics	London, Can.
Chamberlin, Rollin Thomas, *a w*	S.B. (*u. of Chicago*) '03. Geology	Chicago
Chandler, Elbert Edwin, *s*	A.B. (*William Jewell c.*) '91. Chemistry, Physics	Chicago
Church, Victor Harry, *s*	Ph.B. (*u. of Chicago*) '94. History	Berwyn
Clifford, Oliver Charles, *s a w*	A.B. (*Oberlin c.*) '93. Physics, Mathematics (*fel.*)	Chicago
Colwell, Howard Griffith, *s*	A.B. (*William Jewell c.*) '97. Greek	St. Louis, Mo.
Cresap, Trella Jane, *s*	A.B. (*u. of Illinois*) '04. English	Urbana
Crocker, William, *s*	A.B. (*u. of Illinois*) '02; A.M. (*Ibid.*) '03; Ph.D. (*u. of Chicago*) '06. Botany, Chemistry	Chicago
Davidson, David MacLeod, *s*	A.B. (*Tulane u.*) '04; S.M. (*u. of Chicago*) '06. Chemistry	New Orleans, La.
Day, Edna Daisy, *s*	S.B. (*u. of Michigan*) '96; S.M. (*Ibid.*) '97; Ph.D. (*u. of Chicago*) '06. Household Administration	Chicago
Dean, John Alvin, *a w*	A.B. (*u. of Chicago*) '05. Sociology, Philosophy	Sioux City, Ia.
Denis, Willey, *s a w*	A.B. (*Tulane u.*) '99; A.M. (*Ibid.*) '02. Chemistry, Physics	New Orleans, La.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Derby, Ira Harris, *s*	S.B. (*Harvard u.*) '99. Chemistry, Physics	Lynne Center, Mass.
DeWitt, Norman Wentworth, *s*	A.B. (*u. of Toronto*) '99; Ph.D. (*u. of Chicago*) '06. Latin, Greek	St. Louis, Mo.
Downey, June Etta, *s a w*	A.B. (*u. of Wyoming*) '95; A.M. (*u. of Chicago*) '98. Psychology, Philosophy (*fel.*)	Laramie, Wyo.
Dowrie, George William, *a w*	A.B. (*Lake Forest c.*) '01. Latin	Pontiac
Dresden, Arnold, *s a w*	(*u. of Amsterdam*) '03. Mathematics, Astronomy	Chicago.
Dykstra, Clarence Addison, *a w*	A.B. (*State u. of Iowa*) '03. History (*fel.*)	Rochester, N. Y.
Edwards, Flora Morey, *s*	A.B. (*Beloit c.*) '03; A.M. (*u. of Chicago*) '06. English, History. Philosophy	Clinton Junction, Wis.
Elam, Harvey William, *s*	Ph.B. (*Antioch c.*) '01; Ph.M. (*u. of Chicago*) '06. Sociology	Xenia, O.
Enke, Ana Jule, *a w*	Ph.B. (*u of Chicago*) '05. Romance, German (*fel.*)	La Grange
Escott, Edward Brind, *s*	S.B. (*u. of Michigan*) '95; S.M. (*u. of Chicago*) '96. Mathematics	Ann Arbor, Mich.
Farley, Albert Allison, *s*	Ph.B. (*Beloit c.*) '95; Ph.M. (*u. of Chicago*) '04; Ph.D. (*Ibid.*) '06. Philosophy	Chicago
Fay, Agnes La Foy, *s*	S.B. (*u. of Chicago*) '04; S.M. (*Ibid.*) '05. Chemistry	Peoria
Fitzgerald, James Anderson, *a w*	A.B. (*Georgetown c.*) '01. Sociology, Philosophy, Political Economy	Huntington, W. Va.
Freeman, Ella Maria, *s*	A.B. (*Vassar c.*) '84; A.M. (*u. of Chicago*) '06. Chemistry	Princeton, Mass.
Geigley, Amanda Eddy, *s a w*	S.B. (*Knox c.*) '01. Zoölogy, Geology	Chicago
Gibbons, Vernette Lois, *a w*	S.B. (*Mt. Holyoke c.*) '96; A.B. (*Ibid.*) '99. Chemistry.	Albany, N. Y.
Gilchrist, Lachlan, *s*	A.B. (*u. of Toronto*) '04; A.M. (*Ibid.*) '05. Physics, Chemistry	Toronto, Can.
Gittinger, Roy, *s*	A.B. (*u. of Oklahoma*) '02; A.M. (*u. of Chicago*) '06. History	Norman, Okla.
Goettsch, Emil, *s a*	S.B. (*u. of Chicago*) '03; Ph.D. (*Ibid.*) '06. Anatomy, Pathology, Physiology	Davenport, Ia.
Gould, Chester Nathan, *a w*	A.B. (*u. of Minnesota*) '96; A.M. (*Ibid.*) '00. German, English	Napa, Cal.
Green, Susan Allen, *s*	S.B. (*Smith c.*) '05; A.M. (*u. of Chicago*) '06. Botany, Zoölogy, Chemistry	Wakefield, Mass.
Griffin, Frank Loxley, *s*	S.B. (*u. of Chicago*) '03; S.M. (*Ibid.*) '04. Mathematics, Astronomy	Topeka, Kan.
Gronow, Hans Ernest, *w*	Ph.B. (*u. of Chicago*) '05. German	Chicago
Guild, Susie May, *a w*	A.B. (*Washburn c.*) '98. Latin, German	Sabetha, Kan.
Gurney, Lawrence Emery, *s*	A.B. (*Colby c.*) '99; Ph.D. (*u. of Chicago*) '06. Physics, Mathematics	Holliston, Mass.
Hague, Stella May, *s*	A.B. (*Indiana u.*) '93; S.M. (*u. of Chicago*) '05. Botany	Auburn, Ind.
Hall, Elizabeth Asenath, *s*	A.B. (*Indiana u.*) '05; A.M. (*u. of Chicago*) '06. English	Chicago
Hall, Mosiah, *s*	S.B. (*Brigham Young c.*) '99; Ph.M. (*u. of Chicago*) '01. Philosophy, Education	Salt Lake, Utah
Hall, Robert Anderson, *s a w*	A.B. (*u. of Chicago*) '05. Chemistry, Physics	Houston, Tex.
Ham, Ernest Guy, *s*	A.B. (*Dartmouth c.*) '94. Latin	Randolph, Vt.
Hamilton, Ira Calvert, *s*	A.B. (*Indiana u.*) '00. Political Science, History	Markle, Ind.
Hamilton, John Bascom, *s*	A.B. (*u. of Texas*) '02; A.M. (*u. of Chicago*) '04. Political Economy, Greek, Latin	Edmonton, Ky.
Hatfield, William Henry, *s*	A.B. (*u. of Chicago*) '04. English, Law, Political Science	Poughkeepsie, N. Y.
Hegner, Robert Wilhelm, *s a w*	S.B. (*u. of Chicago*) '03; S.M. (*Ibid.*) '04. Zoölogy, Botany	Decorah, Ia.
Heinemann, Paul Gustav, *a w*	S.B. (*u. of Chicago*) '01. Pathology, Physiology	Chicago
Heinzelman, Jacob Harold, *s a w*	A.B. (*u. of Illinois*) '02. German, Romance (*fel.*)	Peoria
Hersman, Anna Bates, *w*	A.B. (*u. of Missouri*) '87. Greek, Latin	Chicago
Higley, Louis Allen, *s*	S.B. (*u. of Chicago*) '00. Chemistry, Physics	Zion City
Hildebrandt, Theophil Henry, *s a w*	A.B. (*u. of Illinois*) '05; S.M. (*u. of Chicago*) '06. Mathematics, Astronomy	Carpentersville
Hill, Herbert Wynford, *s a w*	L.B. (*u. of California*) '00; Ph.M. (*u. of Chicago*) '04. English. (*fel.*)	Austin, Tex.
Hilpert, Willis Stose, *s*	S.B. (*u. of Chicago*) '03; Ph.D. (*Ibid.*) '06. Chemistry, Physics	Chicago
Hopkins, Louis Allen, *s*	A.B. (*Butler c.*) '05; A.M. (*u. of Chicago*) '06. Mathematics	Kokomo, Ind.

NAME	DEGREE ; DEPT. OF STUDY	HOME ADDRESS
Jacobson, Katherine, *s*	A.B. (*u. of Minnesota*) '02; A.M. (*u. of Chicago*) '06. Romance, German	Chicago
Jensen, Gerhard H., *s*	S.B. (*Cornell u.*) '99; Ph.D. (*u. of Chicago*) '06. Botany, Zoölogy	Chicago
Jernegan, Marcus Wilson, *s*	A.B. (*Brown u.*) '96; A.M. (*Ibid.*) '98; Ph.D. (*u. of Chicago*) '06. History, Political Science	Edgartown, Mass.
Johnson, Dora, *a w*	A.B. (*Vanderbilt u.*) '91; A.M. (*u. of Chicago*) '00. Latin, Greek	Memphis, Tenn.
Ketcham, Lilla McDonald, *s*	A.B. (*Lake Erie c.*) '05. Romance	Indianapolis, Ind.
Kirk, Edwin Garvey, *s w*	S.B. (*u. of Chicago*) '02. Anatomy, Zoölogy	Lima, O.
Krehbiel, Edward Benjamin, *s*	A.B. (*u. of Kansas*) '02; Ph.D. (*u. of Chicago*) '06. History, Political Science	Chicago
Kringel, Mary Lucile, *a w*	A.B. (*DesMoines c.*) '06. Latin, English, Sociology	Atlanta, Ia.
Lamar, Clyde Park, *a*	A.B. (*Valparaiso c.*) '97; Ph.M. (*u. of Chicago*) '06. Political Science, Political Economy, Law	Chicago
Lawrence, William Evans, *s*	S.B. (*Earlham c.*) '04. Botany, Zoölogy	Richmond, Ind.
Lawrie, James Wright, *s*	S.B. (*u. of Chicago*) '04; Ph.D. (*Ibid.*) '06. Chemistry, Physics	Chicago
Leonard, Heman Burr, *s*	S.B. (*u. of Michigan*) '95. Mathematics	Detroit, Mich.
Luckenbill, Daniel David, *s a w*	A.B. (*u. of Pennsylvania*) '03. Semitics, Biblical Greek (*fel.*)	Souderton, Pa.
Luehring, Fred William, *s*	Ph.B. (*Northwestern c.*) '05; A.M. (*u. of Chicago*) '06. Sociology	Hanover, Kan.
Lyons, Jessie May, *s*	A.B. (*u. of Texas*) '95; A.M. (*u. of Chicago*) '06. English	El Paso, Tex.
Merritt, Albert Newton, *s*	A.B. (*Leland Stanford u*) '01; A.M. (*u. of Chicago*) '04; Ph.D. (*Ibid.*) '06. Political Economy, Political Science	Princeville
Miller, Catherine Ann, *s*	A.B. (*u. of Chicago*) '03. English	Morristown, Tenn.
Moffat, William Eugene, *s*	A.B. (*u. of Chicago*) '96. Greek, Latin	Chicago
Morrison, Florence Irene, *s*	A.B. (*u. of Chicago*) '02; A.M. (*Ibid.*) '04. Greek	Indianapolis, Ind.
McDonald, Warren Thomas, *s*	A.B. (*William Jewell c.*) '00; A.M. (*Ibid.*) '01. Latin	Troy, Mo.
McGill, Harry Albert, *s*	A.B. (*Butler c.*) '02; A.B. (*u. of Chicago*) '03. History	Roxbury, O.
McGrew, Mary Edith, *a w*	A.B. (*u. of California*) '03; A.M. (*Ibid.*) '05. Latin, Greek (*fel.*)	Berkeley, Calif.
McGuigan, Hugh, *s*	S.B. (*N. Dakota Agricultural c.*) '98; Ph.D (*u. of Chicago*) '06. Physiology, Chemistry	Fargo, N. D.
McLearie, John, *s*	A.B. (*Macalester c.*) '97; A.M. (*u. of Chicago*) '05. Sociology	Rapid City, S. D.
McLeod, Andrew Fridley, *s*	A.B. (*u. of Chicago*) '03; Ph.D. (*Ibid.*) '06. Chemistry, Physics	Chicago
MacMillan, William Duncan, *s a w*	A.B. (*Fort Worth u. Texas*) '98. Mathematics (*fel.*)	Chicago
MacNeish, Harris Franklin, *a w*	S.B. (*u. of Chicago*) '02; S.M. (*Ibid.*) '04. Mathematics, Astronomy (*fel.*)	Chicago
Nichol, Eda Belle, *s a w*	A.B. (*Westminster*) '98. Latin, History	Indiana, Pa.
Nickell, Marie Baker, *s*	Ph.B. (*u. of Chicago*) '01; Ph.M. (*Ibid.*) '06. History	Waukeshaw, Wis.
Northup, George Tyler, *a*	A.B. (*Williams c.*) '97; Ph.D. (*u. of Chicago*) '06. Romance, German	Evanston
Norton, Frederick Owen, *s a*	A.B. (*Kentucky u.*) '93; A.M. (*Ibid.*) '95; Ph.D. (*u. of Chicago*) '06; Biblical Greek, Greek (*fel.*)	Georgetown, Can.
Ohrenstein, Valerie Deborah, *s*	Ph.B. (*u. of Chicago*) '04; Ph.M. (*Ibid.*) '06. Chemistry	Chicago
Pace, Lula, *s*	S.B. (*Baylor u.*) '90: S.M. (*u. of Chicago*) '02. Botany, Geology	Waco, Tex.
Perkins, Zella Isabel, *s*	S.B. (*u. of Idaho*) '03; S.M. (*u. of Chicago*) '06. Chemistry	Moscow, Idaho
Peterson, Isabel Alberta, *s*	S.B. (*Lawrence u.*) '02; S.M. (*u. of Chicago*) '06; Chemistry, Physics	Fond du Lac, Wis
Plant, Louis Clark, *s*	Ph.B. (*u. of Michigan*) '97; Ph.M. (*u. of Chicago*) '05. Mathematics	Peoria
Poor, Vincent Collins, *s*	A.B. (*u. of Kansas*) '01. Mathematics, Astronomy	Oketo, Kan.
Porter, George Henry, *s*	Ph.B. (*Ohio State u.*) '01. History	New Philadelphia, O.
Praeger, William Emilius, *s*	S.B. (*u. of Illinois*) '00; S.M. (*u. of Chicago*) '03. Botany	Kalamazoo, Mich.
Panum, Arthur, *s*	A.B. (*u. of Minnesota*) '92; Ph.D. (*u. of Chicago*) '06. Mathematics, Astronomy	Ithaca, N. Y.
Pasor, Samuel Eugene, *s*	S.B. (*Ohio State u.*) '98; A.M. (*Ibid.*) '02; S.M. (*u. of Chicago*) '06. Mathematics	Columbus, O.
Rees, Kelly, *s*	A.B. (*Leland Stanford u.*) '02; Ph.D. (*u. of Chicago*) '06. Greek, Latin	Fayetteville, Tenn.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Riley, Edgar Francis, *s*	A. B. (*Baker u.*) '00; Ph.D. (*u. of Chicago*) '06. Philosophy, Psychology	Baldwin, Kan.
Robinson, Edna Moore, *a w*	A.B. (*u. of Chicago*) '04. English, Greek	Chicago
Ross, William Horace, *s a*	S.B. (*Dalhousie u.*) '03; S.M. (*Ibid.*) '04. Chemistry	Louisville, N. S.
Rowat, Jessie Reid, *a w*	A.B. (*Western u. London, Can.*) '06. English, General Literature, History	London, Can.
Royster, James Finch, *s*	A.B. (*Wake Forest c.*) '00. English, German	Raleigh, N. C.
Ruger, Henry Alfred, *s*	A.B. (*Beloit c.*) '95; A.M. (*u. of Chicago*) '05. Psycholoy, Philosophy, Neurology	Janesville, Wis.
†Sage, Evan Taylor, *a w*	A.B. (*u. of Nebraska*) '02; A.M. (*u. of Chicago*) '04. Latin, Greek (*fel.*)	Beatrice, Neb.
Sato, Toru, *a*	(*Waseda u.*) '01: Ph.M. (*u. of Chicago*) '06. Philosophy	Iwatekan, Japan
Scott, Harry Fletcher, *s a w*	A.B. (*Illinois c.*) '96; A.M. (*u. of Chicago*) '04. Latin	Chicago
Scribner, Dora Anna, *s*	A.B. (*Wellesley c.*) '89; A.M. (*u. of Chicago*) '06. English	Nashville, Tenn.
Shaklee, Alfred Ogle, *s*	S.B. (*u. of Chicago*) '99. Chemistry, Anatomy	Caldwell, O.
Simonson, Ida Sophia, *s*	L.B. (*Northwestern u.*) '94. English	Clear Lake, Ia.
Sinclair, Mary Emily, *s*	A.B. (*Oberlin c.*) '00: A. M. (*u. of Chicago*) '03. Mathematics	Worcester, Mass.
Smedley, Annette Hamilton, *a w*	A.B. (*Wellesley c.*) '06. Latin	Bradford, Pa.
Smith, Frances Grace, *s*	A.B. (*Smith c.*) '93; A.M. (*Ibid.*) '00; Ph.D. (*u. of Chicago*) '06. Botany.	Springfield, Mass.
Smith, Henry, *a w*	A.B. (*u. of Illinois*) '03; A.M. (*u. of Chicago*) '03. History, Church History (*fel.*)	Metamora
Smith, Newland Farnsworth, *s*	Ph.B. (*Northwestern u.*) '92. Physics	Olivet, Mich.
Stahl, Ira William, *s*	A.B. (*u. of Wooster*) '93; A.M. (*Ibid.*) '96. Physics	Chicago
Strong, Anna Louise, *s a w*	A.B. (*Oberlin c.*) '05. English, Philosophy	Chicago
Sundwall, John, *s a*	Ph.B. (*Central u., Utah*) '01; S.B. (*u. of Chicago*) '05; Ph.D. (*Ibid.*) '06. Anatomy, Pathology (*fel.*)	Fair View, Utah
Tannreuther, George Washington, *s*	A.B. (*Manchester c.*) '00; A.M. (*Antioch c.*) '01. Zoölogy	New Carlisle, O.
Taylor, Howard Frank, *s*	A.B. (*Yale u.*) '02; A.M. (*u. of Chicago*) '06. Latin, Greek	Hartford, Conn.
Taylor, Marion Lee, *a w*	A.B. (*Wellesley c.*) '95. German, English.	Albany, N. Y.
Tear, Daniel Ambrose, *a*	Ph.B. (*Southwest c. Kan.*) '96; Ph.D. (*u. of Chicago*) '06. Education, Philosophy	Chicago
Tolman, Judson Allen, Jr., *s*	A.B. (*u. of Chicago*) '00; A.M. (*Ibid.*) '03. Latin, Greek	El Paso, Tex.
Turner, Charles Henry, *s a w*	S.B. (*u. of Cincinnati*) '91; S.M (*Ibid.*) '92. Zoölogy, Psychology	Chattanooga, Tenn.
Underhill, Anthony Lispenard, *a*	S.B. (*u. of Chicago*) '00; Ph.D. (*Ibid.*) '06. Mathematics, Astronomy	Princeton, N. J.
Vincent, Grace Margaret, *a w*	A.B. (*u. of Chicago*) '06. Latin	Siloam Springs, Ark.
Van Benchoten, Anna Lavinia, *s*	S.B. (*Cornell u.*) '94; S.M. (*u. of Chicago*) '00. Mathematics	Binghamptôn, N. Y.
Vaughan, Lena, *s*	S.B. (*u. of Chicago*) '02. Physics	Liberty, Mo.
Walker, Buzz M., *s*	S.B. (*Mississippi Agricultural and Mechanical c.*) '83; S.M. (*Ibid.*) '86; Ph.D. (*u. of Chicago*) '06. Mathematics, Astronomy	Agricultural College, Miss.
Webb, Atticus, *a w*	A.M. (*Southwestern u.*) '96. Philosophy, Psychology	Pican Gap, Tex.
Wellman, Mabel Thacker, *a w*	A.B. (*Wellesley c.*) '95. Household Administration (*fel.*)	Highlands, Mass.
Wells, Mary Evelyn, *a w*	A.B. (*Mt. Holyoke c.*) '04. Mathematics, Astronomy	Naugatuck, Conn.
Williamson, Edward John, *a w*	A.B. (*Queens u.*) '98; A.M. (*Ibid.*) '00. German, Romance (*fel.*)	Kingston, Ont.
Willis, Lena, *a w*	S.B. (*Denison u.*) '06. History, General Literature, History of Art	Washington Court House, O.
Wood, William Hugh, *s a w*	A.B. (*u. of Nashville*) '96; A.B. (*u. of Chicago*) '04; A.M. (*Ibid.*) '06. History	Jefferson, Miss.
Woods, Erville Bartlett, *s*	A.B. (*Beloit c.*) '01; (*u. of Chicago*) '06. Sociology, Political Economy	Racine, Wis.
Wright, William Kelley, *s*	A.B. (*u. of Chicago*) '99; Ph.D. (*Ibid.*) '06. Philosophy, Education	Canton
Yamanouchi, Shigeo, *s a w*	S.M. (*Teachers c., Tokyo*) '98. Botany (*fel.*)	Tokyo, Japan
Yoshioka, Ghen-ichiro, *a w*	Ph.B. (*Northwestern u.*) '02. Sanskrit, Greek (*fel.*)	Okayama, Japan.

MEN—107 WOMEN—55 TOTAL—162

III. STUDENTS NOT YET ADMITTED TO CANDIDACY

NOTE.— Students are admitted to candidacy for higher degrees by vote of the faculty on approval of the thesis subject and fulfilment of other conditions under the regulations.

NAME	DEGREE; DEPARTMENT OF STUDY	HOME ADDRESS
Abbott, Bonnie Edwina, *a w*	A.B. (*Wellesley c.*) '06. Sociology	Chicago
Abbott, Grace, *s*	Ph.B. (*Grand Island c.*) '98. Political Science, History	Grand Island, Neb.
Adams, Emma Fidelia, *s*	A.B. (*u. of Chicago*) '02. Latin	Ishpenning, Mich.
Adams, Jane, *s*	A.B. (*u. of Missouri*) '93; A.M. (*Ibid.*) '95. History of Art, Romance	Kansas City, Mo.
Aldrich, Benjamin Winsor, *s*	A.B. (*Hillsdale c.*) '87; A.M. (*Ibid.*) '90. Greek, Latin	Moores Hill, Ind.
Alexander, Pauline Rankin, *s*	A.B. (*Westminster c.*) '05. English	New Wilmington, Pa.
Ames, Elizabeth Pynchon, *s*	L.B. (*Wheaton c.*) '06. History	Wheaton
Anderson, Ernest, *a w*	S.B. (*u. of Texas*) '03; A.B. (*Trinity u.*) '03. Chemistry, Botany (*fel.*)	Tehuacana, Tex.
Anderson, Lura Hazel, *s a w*	A.B. (*Butler c.*) '06. Mathematics	Indianapolis, Ind.
Andrews, Ernest John, *s*	S.B. (*u. of Chicago*) '99. Physics, Mathematics	Chicago
Anthony, Katharine Susan, *s*	Ph.B. (*u. of Chicago*) '05. English	Fort Smith, Ark.
Appleman, Charles Orval, *s a*	Ph.B. (*Dickinson c.*, Pa.) '03. Zoölogy, Botany	Galesburg
Arkin, Morris Lee, *w*	S.B. (*u. of Pennsylvania*) '06. Anatomy	Allegheny, Pa.
Armitage, Ambrose Wesley, *s*	Ph.B. (*Lawrence u.*) '99. English	Seymour, Wis.
Armstrong, A. Joseph, *s*	A.B. (*Wabash c.*) '02. English	Bloomington
Arneson, Inga Elena, *w*	Ph.B. (*Hamline u.*) '00. History	Watson, Minn.
Arnold, Lillian Belle, *s*	A.B. (*Muskingum c.*) '04. German, Romance	New Concord, O.
Ascham, Louis, *s*	A.B. (*u. of Michigan*) '03. Geology	Canby, Minn.
Askew, Mary, *w*	S.B. (*c. of Mississippi*) '05. English	Columbus, Miss.
Aston, Emily Anna, *s*	Ph.B. (*Coe c.*) '01. Latin	Sloan, Ia.
Auger, Charles Earl, *s a w*	A.B. (*u. of Toronto*) '02. English, German	Elora, Can.
Babcock, Daniel Clark, *a*	S.B. (*Alfred u.*) '03. Chemistry, Physics	Monsom, Mass.
Babcock, Earle Brownell, *a w*	Ph.B. (*u. of Chicago*) '03. Romance, German	Chicago
Baber, Zonia, *s*	S.B. (*u. of Chicago*) '04. Geology	Chicago
Bailey, Jay Wheeler, *s*	A.B. (*Finley c.*) '06. Physics	Findlay, O.
Bailey, Jennie Luse, *s*	L.B. (*Waynesburg c.*) '04. History	Washington, Pa.
Bailey, John Franklin, *s*	A.B. (*Waynesburg c.*) '03; A.M. (*Columbia u.*) '04. Political Science	Khedive, Pa.
Bailey, Mark, *s*	A.B. (*u. of Oregon*) '88; A.B. (*Harvard u.*) '90; A.M. (*Ibid.*) '91. Latin, Greek	Kalamazoo, Mich.
Baker, Beatrice, *s*	A.B. (*Fairmount c.*) '00. History, English	Wichita, Kan.
Baker, Edward Hall, *s a*	A.B. (*Beloit c.*) '84. Physiology, Anatomy	New York, N. Y.
Ball, Lucy Austin, *a w*	A.M. (*Central c.*) '92. English	Kansas City, Mo.
Bangs, Sarah Elizabeth, *s*	A.B. (*u. of Michigan*) '81. History	Avon Park, Fla.
Banta, Frances Myrtis, *a w*	Ph.B. (*Oberlin c.*) '00. History, English, Latin	Conklin, N. Y.
Barber, Gideon Lanning, *a*	A.B. (*Union c.*) '67. Anatomy	Chicago
Barber, George Stanley, *s*	A.B. (*u. of Wisconsin*) '05. Anatomy, Physiology	Lawton, Okla.
Barnard, Arthur Fairchild, *s*	A.B. (*Beloit c.*) '93. Latin, Greek	Chicago
Barnes, Benjamin Spofford, *a w*	S.B. (*u. of Chicago*) '06. Pathology	Tabor, Ia.
Barnes, Edwin Allen, *s*	Ph.B. (*Western Reserve u.*) '03. Physics, Chemistry	Payne, O.
Barnes, James Hamilton, *s*	A.B. (*De Pauw u.*) '00. Physics	Boswell, Ind.
Barnett, Winifred, *s*	A.B. (*Emporia c.*) '99. Latin, Greek	Emporia, Kan.
Baron, Albert Heyem Nachman, *a w*	A.B. (*u. of Colorado*) '04; A.M. (*Clark u.*) '06. Sociology, Political Economy	Silver Plume, Colo.
Barry, Frank Burnett, *s*	A.B. (*u. of Texas*) '02. Anatomy	Paris, Tex.
Bassett, Helena Marie, *s*	A.B. (*u. of Chicago*) '06. Greek, Latin	Chicago
Bassett, Henry Jewell, *s*	A.B. (*Maryville c.*) '04; A.B. (*Princeton u.*) 05. Latin, German	Maryville, Tenn.
Bates, Frances Barton, *a*	Ph.B. (*u. of Chicago*) '00. General Literature	Chicago

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Bates, William Hunt, *s*	A.B. (*Vanderbilt u.*) '94; A.M. (*u. of Chicago*) '02. Mathematics	Lafayette, Ind.
Baumgartner, Milton D., *a w*	A.B. (*u. of Kansas*) '02; A.M. (*Ibid.*) '03. German (*fel.*)	Newton, Kan.
Bausman, Joseph Henderson, *s*	A.B. (*Washington and Jefferson c.*) '80; A.M. (*Ibid.*) '97. English	Rochester, Pa.
Bayley, Ralph Waldo, *s*	A.B. (*u. of Michigan*) '05. Psychology	Tonica
Beal, George Hamilton, *s*	A.B. (*Princeton u.*) '05. Greek, Latin	Clarinda, Ia.
Becht, Frank Christian, *w*	S.B. (*u. of Chicago*) '06. Physiology, Anatomy (*fel.*)	Peoria
Beddow, Ira Alanson, *s*	Ph.B. (*u. of Michigan*) '05. Public Speaking	Olivet, Mich.
Bedford, Scott Elias William, *s a w*	A.B. (*Baker u.*) '02; A.M. (*Ibid.*) '03. Sociology, History (*fel.*)	Osage City, Kan.
Bedichek, Roy, *s*	S.B. (*u. of Texas*) '03. English, History	Eddy, Tex.
Beers, Ethel Ella, *a w*	A.B. (*u. of Chicago*) '96. Latin	Chicago
Beeson, William James, *w*	S.B. (*Alabama Polytechnic inst.*) '96; S.M. (*Ibid.*) '97. Sociology	Jacksonville, Ala.
Beeson, Mabel Banta, *s*	A.B. (*Indiana u.*) '85; A.M. (*Ibid.*) '91. Latin, Greek	Chicago
Belcher, Archibald, *s*	A.B. (*Emory c.*) '92. Chemistry, Physics	Fort Worth, Tex.
Bell, Charles S., *s a w*	A.B. (*Monmouth c.*) '03. Mathematics	Roundhead, O.
Bell, Charles Thomas, *a w*	A.B. (*u. of Missouri*) '99. Anatomy	Maryville, Mo.
Bell, James Edgar, *s*	S.B. (*u. of Chicago*) '05. Chemistry, Zoölogy	Gettysburg, O.
Bell, Leon Edwin, *s*	A.B. (*Northwestern u.*) '84; A.M. (*Ibid.*) '87. Psychology, Neurology	Chicago
Bell, Spurgeon, *s a w*	S.B. (*u. of Texas*) '02. Political Economy, History (*fel.*)	Blanco, Tex.
Bellamy, Edith Coffin	A.B. (*u. of Chicago*) '02. Chemistry, Physics	Florence, Ala.
Benson, Henry Kreitzer, *s*	A.B. (*Franklin and Marshall c.*) '99; A.M. (*Ibid.*) '02. Physics	Seattle, Wash.
Benson, Robert Louis, *s a w*	A.B. (*u. of Michigan*) '02; A.M. (*Ibid.*) '04. Pathology, Physiology (*fel.*)	Mt. Morris, Mich.
Berens, Helmut, *s*	A.B. (*u. of Chicago*) '06. German	Elmhurst
Bernard, William Stanly, *s*	A.B. (*u. of North Carolina*) '00; A.M. (*Ibid.*) '03. Greek, Latin	Chapel Hill, N. C.
Bernstorff, Franklin Adolph, *s*	A.B. (*u. of Missouri*) '02. German	Bushton, Kan.
Berry, Lillian Gay, *a w*	A.B. (*Indiana u.*) '99. Latin, Greek (*fel.*)	Bloomington, Ind.
Bestor, Arthur Eugene, *a w*	A.B. (*u. of Chicago*) '01. History, Political Science	Chicago
Biggs, James Arthur, *s*	A.B. (*Ohio Wesleyan u.*) '05. English	Chillicothe, O.
Billings, Thomas Henry, *s*	A.M. (*Queen's u.*) '02. Greek, Latin	Lyn, Ont.
Bing, Philip Carleton, *w*	A.B. (*Miami u.*) '06. English	Maynard, Ia.
Bingham, Walter Van Dyke, *s*	A.B. (*Beloit c.*) '01. Philosophy	Estherville, Ia.
Birchby, James Arthur, *s*	A.B. (*Colorado c.*) '04; A.M. (*Ibid.*) '06. Physics	Marietta, O.
Bird, Ethel, *a w*	A.B. (*Beloit c.*) '05. English	Chicago
Birkhoff, George David, *a w*	A.B. (*Harvard u.*) '05. Mathematics, Physics (*fel.*)	Chicago
Bissell, Esther Lucy, *s*	S.B. (*Cornell c.*) '92. English	Oregon
Bitter, Charles, *s*	A.B. (*Brigham Young c.*) '05. German, Romance	Logan, Utah
Bjorkland, Alfred, *s*	S.B. (*Drake u.*) '02.; S.M. (*Ibid.*) '03. Chemistry, Physics, Geology	Alta, Ia.
Blachley, Madeline St. Claire, *w*	A.B. (*Knox c.*) '05. English, Sociology	Spring Valley
Blair, Charles Scofield, *w*	A.B. (*Northwestern u.*) '05. Geology, Paleontology	Clifton
Blatherwick, Alexander Arthur, *a w*	Ph.B. (*Iowa c.*) '05. Anatomy	Grinnell, Ia.
Blatherwick, George Washington, *a w*	Ph.B. (*Iowa c.*) '05. Anatomy	Grinnell, Ia.
Blount, Mary Putnam, *a w*	S.B. (*u. of Michigan*) '95. Zoölogy (*fel.*)	Byron
Boardman, Vincent Evan, *s*	L.B. (*Pacific u.*) '00; A.M. (*u. of Washington*) '04. History	Chicago
Boden, Anna Friedericke, *w*	Ph.B. (*u. of Chicago*) '06. German	Kellogg, Ia.
Bogard, Augustus, *s*	A.B. (*Bethel c.*) '96. Mathematics	Big Rock, Tenn.
Boies, Bessie, *a w*	A.B. (*Smith c.*) '03. History	Hudson, Mich.
Bond, Perry Avery, *s*	S.B. (*State u. of Iowa*) '01. Chemistry	Sioux City, Ia.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Booth, Reuben Fletcher, *a w*	Ph.B. (*Northwestern u.*) '03. Mathematics	Chicago
Booth, Samuel William, Jr., *s*	A.B. (*Hampden Sidney c.*) '06. Zoölogy	Petersburg, Va.
Borden, Edwin Howard, *s*	A.B. (*Acadia c.*) '92; A.M. (*Ibid.*) '96. Political Economy	Macon, Ga.
Boren, Welzie E., *s*	A.B. (*Indiana u.*) '05. Philosophy, Mathematics	Haubstadt, Ind.
Borough, Mary Gertrude, *s*	Ph.B. (*u. of Chicago*) '00. German	Chicago
Boss, Harriet Elizabeth, *s*	Ph.B. (*Albion c.*) '97. English	Caro, Mich.
Bouton, Gertrude Sadie, *w*	A.B. (*u. of Chicago*) '06. Latin	Orange, Calif.
Bowen, Albert Ernest, *s*	A.B. (*Brigham Young c.*) '02. History	Logan, Utah
Bower, Lester Leon, *s*	Ph.B. (*Northwestern c.*) '05. History	Lindsey, O.
Boyce, Helen, *w*	Ed.B. (*u. of Chicago*) '05. History	Chicago
Boyce, Warren Scott, *a w*	A.B. (*Wake Forest c.*) '03. Political Economy, Sociology	Selwin, N. C.
Boyd, Alma, *s*	A.B. (*Converse c.*) '94. English	Spartansburg, S. C.
Boyd, Edith L., *s*	A.B. (*Stanford u.*) '07. English, Sociology	Spokane, Wash.
Bradford, John Ewing, *s*	A.B. (*Monmouth c.*) '89. History	Media
Brail, Theron Andrew, *a w*	A.B. (*Albion c.*) '05. Physics	Pulaski, Mich.
Bramhall, Frederick Denison, *a w*	Ph.B. (*u. of Chicago*) '02. Political Science	Chicago
Brandenburg, Samuel Jacob, *s*	A.B. (*Miami u.*) '04. Sociology	Campbellstown, O.
Braude, Benjamin, *a w*	S.B. (*u. of Chicago*) 06. Psychology, Sociology	Chicago
Bretnall, George Herbert, *s*	A.B. (*Cornell c.*) '96; A.M. (*Ibid.*) '97. Botany	Monmouth
Breyer, John Henry, *s a w*	A.B. (*Wheaton c.*) '05. Anatomy, Chemistry	Hinsdale
Bribach, Ruth Lomas, *a w*	A.B. (*Vassar c.*) '06. English, Philosophy	St. Louis, Mo.
Bridgman, Donald Elliott, *a w*	A.B. (*Hamline u.*) '03. Political Economy (*fel.*)	St. Paul, Minn.
Briggs, Larry, *s a*	A.B. (*u. of Michigan*) '05. History, Political Science	Manton, Mich.
Briscoe, Walter Matthew, *s*	A.B. (*Ouachita c.*) '00. Romance	Arkadelphia, Ark.
Bristol, Anna Eloise, *s*	Ph.B. (*u. of Michigan*) '00. Latin	Webster Grove, Mo.
Bronson, Christine Fredericka, *s*	Ph.B. (*u. of Michigan*) '93. History	Morgan Park
Brooke, Mary Myrtle, *s*	A.B. (*u. of Nashville*) '94. English	Canton, Ga.
Brooke, William Elsworth, *s*	A.M. (*u. of Nebraska.*) '96. Mathematics	Minneapolis, Minn.
Brooks, Clyde, *s*	A.M. (*u. of Missouri*) '05. Physiology (*fel.*)	Columbia, Mo.
Brown, Edward John Frederick, *s*	A.M. (*u. of Nebraska*) '00. Romance	Chicago
Brown, Hazel Louise, *s a w*	A.B. (*u. of Chicago*) '06. Greek (*fel.*)	Chicago
Brown, Horatio Alford, *s a w*	A.B. (*u. of Wooster*) '02. Anatomy	Wooster, O.
Brown, Jeanette Swan, *s a*	—— (*Radcliffe c.*) '85. Physics	Chicago
Brown, John Zimmerman, *a w*	A.B. (*u. of Utah*) '06. Physiology, Anatomy	Pleasant Grove, Utah
Browning, Faith, *a w*	S.B. (*Cornell u.*) '99. Chemistry, Physics	Brooklyn, N. Y.
Brownlee, Helen, *s*	A.B. (*Mississippi Industrial inst. and c.*) '04. English	Columbus, Miss.
Brownlee, Martha Tarnow, *a*	Ph.B. (*u. of Chicago*) '03. Chemistry	Chicago
Brownson, Howard Gray, *a w*	A.B. (*u. of Illinois*) '06. Political Economy, Political Science (*fel.*)	Centralia
Brush, Henry Raymond, *s*	A.B. (*Western Reserve u.*) '98. Romance, German	Holland, Mich.
Buchanan, Elizabeth Earnest, *s*	A.B. (*u. of Chicago*) '00. English	Chicago
Buchanan, Robert Earle, *s*	S.B. (*Iowa State c.*) '04; S.M. (*Ibid.*) '06. Bacteriology	Ames, Ia.
Buck, Thomas, *s a w*	S.B. (*u. of Maine*) '01. Mathematics	Mt. Vernon, Wash.
Buckborough, Siegel Abishai, *s*	A.B. (*McMasters u.*) '02; A.B. (*Harvard u.*) '03. Chemistry, Geology	Bookton, Ont.
Buffum, Roy Luman, *s*	A.B. (*Williams c.*) '05. Anatomy, Chemistry	Toulon
Bunzel, Herbert Horace, *a w*	S.B. (*u. of Chicago*) '06. Chemistry (*fel.*)	Chicago
Burlinghame, Leonas Lancelot, *a w*	A.B. (*u. of Chicago*) '06. Botany	Chicago
Burnham, Josephine May, *s*	Ph.B. (*u. of Chicago*) '01. Psychology	Chicago
Busby, Daisy Thornton, *a w*	S.B. (*Washington Agricultural c.*) '00. English	Ruscalia, Wash.
Bush, John Kenyon, *s*	A.B. (*u. of Illinois*) '00. Chemistry	Joliet

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Buswell, Clara Lucena, *s*	A.B. (*Boston u.*) '00. German, Romance	Littleton, N. H.
Cabell, Elvira Daniel, *s*	Ph.B. (*u. of Chicago*) '02. English	Chicago
Calhoun, George Miller, *a w*	A.B. (*Stetson u.*) '06; A.M. (*u. of Chicago*) '06. Latin, Greek	Tampa, Fla.
Calhoun, Sallie Elizabeth, *s*	Ph.B. (*u. of Chicago*) '03. Sociology, English.	Chicago
Campbell, Harry Morgan, *s*	Ph.B. (*Dickinson c.*) '01. Chemistry	Verona, Pa.
Campbell, Sherman, *s*	A.B. (*Harvard u.*) '99; A.M. (*Ibid.*) 03. Latin, Greek	Cambridge, Mass.
Campbell, Willis Cassius, *a w*	S.B. (*New Hampshire c.*) '06. Physics	Windham, N. H.
Canfield, Emily, *s w*	Ph.B. (*u. of Chicago*) '01. History of Art	Burlington, Vt.
Canfield, Mary Frances, *s*	A.B. (*u. of Nashville*) '92. Latin, Romance	Paris, Tex.
Capps, Stephen Reid, Jr., *a w*	A.B. (*u. of Chicago*) '03. Geology, Geography (*fel.*)	Jacksonville
Carlisle, Lelia Jane, *s*	A.B. (*u. of Michigan*) '03. Latin, German	Shelby, Mich.
Carman, Joel Ernest, *a w*	S.B. (*Simpson c.*) '01. Geology	St. Charles, Ia.
Carrington, Lillian, *s*	L.B. (*u. of Texas*) '87. English	Austin, Tex.
Carson, Ashmead Courtenay, *s*	S.B. (*South Carolina c.*) '98. Physics	Columbia, S. C.
Carson, James Sylvester, *s*	A.B. (*McKendree c.*) '81; A.M. (*Ibid.*) '84. Political Science, History	Wichita, Kan.
Carter, Lillian Gertrude, *s*	S.B. (*Moore's Hill c.*) '91. Latin, Botany	Delaware, Ind.
Caryl, Christine, *s*	A.B. (*Wellesley c.*) '95. History of Art	Chicago
Cate, Florence Marilla, *s*	Ph.B. (*Morningside c.*) '02. Latin	Sioux Rapids, Ia.
Cattell, James Llewellyn, *a w*	A.B. (*Bucknell u.*) '99. Romance	Chicago
Chalfant, May Effie, *s*	A.B. (*Monmouth c.*) '00. Latin	Oquawka
Chamberlain, Ethel, *a w*	A.B. (*Lombard c.*) '06. Psychology	Galesburg
Chandler, Edith Beatrice, *a w*	A.B. (*Ripon c.*) '04. Romance	Ripon, Wis.
Chapman, Edgar Kincaid, *s*	A.B. (*Oberlin c.*) '03. Physics	Cedar Falls, Ia.
Charlton, Orlando Clarke, *s*	S.B. (*Hanover c.*) '72; A.M. (*Ibid.*) '85. Botany, Zoölogy	Kalamazoo, Mich.
Cherington, Frank Barnes, *a w*	A.B. (*Ohio Wesleyan u.*) '99; A.B. (*Harvard u.*) '00; A.M. (*Ibid.*) '01. English	Lancaster, O.
Child, Bertha, *s*	L.B. (*u. of Minnesota*) '99. English, Romance	Michigan City, Ind.
Church, Frances, *s*	Ph.B. (*State u. of Iowa*) '94. Chemistry	Nebraska City, Neb.
Claassen, Peter A., *s w*	A.B. (*u. of Kansas*) '96. Romance	Beatrice, Neb.
Clark, Ben Maurice, *s*	A.B. (*u. of Nebraska*) '05. Chemistry, Physics	Chicago
Clark, Elbert, *a w*	S.B. (*u. of Arkansas*) '03. Anatomy, Physiology	Waldo, Ark.
Clark, Wesley Plummer, *s a w*	A.B. (*Richmond c.*) '03. English, History	Chester, Va.
Clarke, Clarence Leon, *s a w*	Ph.B. (*Alfred u.*) '06. Philosophy, Psychology, Sociology (*fel.*)	Alfred, N. Y.
Clem, Harry Milton, *a w*	A.B. (*Indiana u.*) '06. Geography, Botany, Romance (*fel.*)	Monroeville, Ind.
Clement, James Homer, *s*	A.B. (*McPherson c.*) '02. German	Anthony, Kan.
Clement, John Addison, *s*	A.B. (*McPherson c.*) '02; A.M. (*Ibid.*) '05. Philosophy	McPherson, Kan.
Clements, Guy Roger, *a w*	A.B. (*Hiram c.*) '05. Mathematics, Astronomy	Ravenna, O.
Cleven, Nels Andrew Nelson, *s*	Ph.B. (*u. of Chicago*) '06. History, Education	Wist, S. D.
Clo, J. Harry, *s*	S.B. (*State c. of Kentucky*) '04; S.M. (*Ibid.*) '05. Physics	Pullman, Wash.
Cloud, Marshal Morgan, *s*	S.B. (*u. of South Carolina*) '04; A.M. (*Ibid.*) '06. Anatomy	Los Angeles, Calif.
Coble, Mary Ferguson, *a w*	A.B. (*Indiana u.*) '04; A.M. (*Ibid.*) '06. Latin, Greek	Frankfort, Ind.
Coffman, George Raleigh, *s*	A.B. (*Drake u.*) '03. English	Lenox, Ia.
Colby, Francelia, *w*	Ph.B. (*u. of Chicago*) '06. History, English	Chicago
Cole, Fay Cooper, *a*	S.B. (*Northwestern u.*) '03. Anthropology	Chicago
Collicott, Jacob Grant, *s*	A.B. (*Indiana u.*) '00. History, Political Economy	Evansville, Ind.
Collins, Miles, *s*	A.B. (*Iowa c.*) '04. History, Political Science, Sociology	Davenport, Ia.
Collins, Mina Rusha, *s*	Ph.B. (*Iowa c.*) '96. English	Davenport, Ia.
Condit, Ira Shields, *s*	A.B. (*Parsons c.*) '86; A.M. (*Ibid.*) '89. Mathematics	Cedar Falls, Ia.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Conger, James William, *s*	S.B. (*Mississippi Agricultural and Mechanical c.*) '05. Mathematics	Oxford, Miss.
Conlon, May Frances, *s*	A.B. (*u. of Michigan*) '02. History	Grand Rapids, Mich.
Conner, Samuel James Allen, *s*	A.B. (*Wesleyan u., Conn.*) '92. Psychology, Education	Chicago
Corbett, Ralph, *s*	A.B. (*u. of Wisconsin*) '05. Chemistry, Anatomy	Harvard
Corper, Harry John, *w*	S.B. (*u. of Chicago*) '06. Anatomy	Chicago
Corwin, Lutie Rebecca, *w*	S.T.B. (*Hartford Theological Sem.*) '94; Ph.B. (*u. of Chicago*) '00. Comparative Religion	Cleveland, O.
Coss, James Austin, *s*	S.B. (*Illinois Wesleyan u.*) '03. Chemistry	Fayette, Ia.
Coulter, Samuel Monds, *s*	A.B. (*Hanover c.*) '80. Botany	St. Louis, Mo.
Covington, David Anderson, *a w*	A.B. (*Wake Forest c.*) '03; A.M. (*Ibid.*) '04. Greek, Latin	Monroe, N. C.
Cowles, Harry Davis, *a w*	S.B. (*u. of Maine*) '05. Chemistry, Physics	Athol, Mass.
Cox, Emily Bancroft, *s w*	Ph.B. (*u. of Chicago*) '06. Romance	Chicago
Cox, Hiden Foy, *s*	A.B. (*Furman u.*) '03. English	Greenville, S. C.
Cox, Richard Garfield, *s*	Ph.B. (*Hiram c.*) '02. Mathematics	Columbia, Tenn.
Crabb, George Melville, *a w*	S.B. (*Iowa c.*) '06. Anatomy, Pathology	Parsons, Kan.
Crans, Mary Bruyn, *s*	S.B. (*u. of North Dakota*) '90. Mathematics	Washington, D. C.
Crave, Henry Shepherd, *s*	A.B. (*u. of Michigan*) '95. Education, Psychology	Chicago
Crotty, Julia, *a w*	A.B. (*Wells c.*) '98. Chemistry	Burlington, Kan.
Curtis, Alice Bertha, *s*	Ph.B. (*State u. of Iowa*) '03. English	Allison, Ia.
Curtis, John Alasco, *s*	A.B. (*Des Moines c.*) '95; A.M. (*Ibid.*) '98. Sanskrit, Semitics	Donakonda, India
Dale, Ella Alice, *s*	A.B. (*u. of Kansas*) '00. English, Latin	Belleville, Kan.
Daniel, James Walter Wright, *s*	A.B. (*Wofford c.*) '98; A. M. (*Vanderbilt u.*) '04. English, History	Macon, Ga.
Daniel, John Franklin, *a*	S.B. (*u. of Chicago*) '06. Zoölogy	Mt. Vernon
Dasher, George Franklin, *s*	S.B. (*u. of Chicago*) '05. Chemistry, Botany	Kalamazoo, Mich.
Davidson, Irville Fay, *s*	A.B. (*Harvard u.*) '97. Latin	Annandale, N. Y.
Davidson, Margaret, *s a w*	Ph.B. (*u. of Chicago*) '03. English (*fel.*)	Chicago
Davis, Carl H., *w*	A.B. (*u. of Oregon*) '05; S.B. (*u. of Chicago*) '06. Pathology	Eugene, Ore.
Davis, Evelyn Myrtle, *a w*	A.B. (*Des Moines c.*) '06. English, Sociology, History	Chicago
Davis, Henry Campbell, *s*	A.B. (*South Carolina c.*) '98. English, German	Columbia, S. C.
Davis, Minnie May, *a w*	Ph.B. (*Des Moines c.*) '06. German, English, Sociology	Chicago
Davis, Robert Gaylord, *a w*	S.B. (*Simpson c.*) '05. Anatomy	Indianola, Ia.
Davis, Virginia Austana, *s*	A.B. (*Allegheny c.*) '91. Latin, English	Collinwood, O.
Davison, Jessie Emeroy, *s*	Ph.B. (*Northwestern u.*) '00. Philosophy, Education	Joliet, Ind.
De Lap, Darwin, *a w*	A.B. (*u. of Wisconsin*) '06. Anatomy, Physiology	Kansas City, Mo.
De Motte, Roy James, *a w*	A.B. (*u. of Illinois*) '03. Anatomy	Chicago
Denton, Minna C., *w*	S.B. (*u. of Michigan*) '00; A.M. (*Ibid.*) '01. Household Administration	Chicago
Devol, Gertrude, *s*	A.B. (*Wellesleyc.*) '97. Latin, Mathematics	Gambier, O.
Dicker, Willard Woodward, *s*	A.B. (*u. of Michigan*) '06. Pathology	Chicago
Dietrich, George Craig, *s*	Ph.B. (*Ohio State u.*) '98. English, Education	Sandusky, O.
Dingee, Gertrude Parker, *s*	A.B. (*u. of Chicago*) '94. History	Chicago
Dobyns, Martha, *a*	Ph.B. (*u. of Chicago*) '02. History, General Literature	Powell, O.
Dolfinger, Emma, *s*	Ph.B. (*u. of Chicago*) '03. Geology	Louisville, Ky.
Donaldson, Olive, *s*	A.B. (*u. of Chicago*) '99. Greek	Leipsic, O.
Dopp, Elspa Millicent, *s*	L.B. (*u. of Michigan*) '03; L.M. (*Ibid.*) '04. English	Olmond, Wis.
Dorety, Sister Helen Angela, *a w*	A.B. (*c. of St. Elizabeth, New Jersey*) '04. Botany	Convent Station, N. J.
Dorweiler, Paul, *s*	S.B. (*State u. of Iowa*) '04. Mathematics	West Bend, Ia.
Doseff, Dosu, *s a w*	S.B. (*Whitworth c.*) '05. Anatomy, Chemistry	Tacoma, Wash.
Douglas, Florence Gertrude, *s a*	A.B. (*u. of N. Dakota*) '98; A.M. (*Wellesley*) '01. English	Seattle, Wash.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Douglas, Frank William, *s*	A.B. (*Albion c.*) '05. Chemistry	Kalamazoo, Mich.
Douglas, Stephen Arnold, *s*	S.B. (*u. of Michigan*) '99. Education	St. Louis, Mo.
Douglass, Walter Woodroe, *s*	A.B. (*u. of Kansas*) '98. English	Kansas City, Kan.
Drew, William Prentiss, *s*	A.B. (*u. of Chicago*) '99. Latin	Salem, Ore.
Dryden, Dean, *s*	A.B. (*u. of Kansas*) '05. German, History	Wichita, Kan.
Duncan, Carson Samuel, *s*	A.B. (*Wabash c.*) '01; A.M. (*Ibid.*) '02; A.M. (*Columbia*) '05. English	Columbus, O.
Dunlap, Edna Cordelia, *s*	A.B. (*u. of Chicago*) '04. German	Chicago
Durley, Benjamin Howard, *s*	S.B. (*u. of Tennessee*) '06. Physiology	Oxford, Miss.
Dutton, Charlotte Reed, *s*	Ph.B. (*u. of Chicago*) '05. History	Meadville, Pa.
Dutton, Emily Helen, *a w*	A.B. (*Mt. Holyoke c.*) '91; A.M. (*Radcliffe c.*) '96. Latin	South Framingham, Mass.
Early, John Jacob, *s*	A.B. (*Indiana u.*) '01. Education	Warsaw, Ind.
Easterling, Elbert Daniel, *s*	A.B. (*South Carolina c.*) '00. Mathematics	Bennettsville, S. C.
Easterling, Tracy Clarence, *s*	A.B. (*Wofford c.*) '02. General Literature	Tatiner, S. C.
Echols, Harry Augustus, *s*	A.B. (*Ewing c.*) '02. Mathematics	Sherman, Tex.
Eckerman, Carl John Emil, *s*	A.B. (*Augustana c.*) '96; S.B. (*u. of Chicago*) '02. Chemistry, Geology	Chicago
Edgerton, Erastus Smith, *a w*	S.B. (*Knox c.*) '05. Anatomy	Galesburg
Ege, Hettie Belle, *s*	L.B. (*Mills c.*) '03. Mathematics	Mills College, Calif.
Eggers, Harold Everett, *s a w*	S.B. (*u. of Wisconsin*) '03. Pathology (*fel.*)	Two Rivers, Wis.
Elliott, Addison Eugene, *s*	S.B. (*Knox c.*) '03. Anatomy, Physiology	Table Grove
Elliott, Franc Roads, *s*	S.B. (*Iowa Wesleyan u.*) '69. History of Art	Chicago
Elliott, Robert Dale, *s*	A.B. (*u. of Nebraska*) '99; A.M. (*Ibid.*) '01. Greek	Vermillion, S. D.
Ely, John Elbert, *a w*	A.B. (*Oberlin c.*) '06. Pathology	Fayette, O.
Embleton, Lutie Johnston, *s*	A.B. (*Washburn c.*) '97. Latin, English	Topeka, Kan.
Emery, Frederic Barclay, *s*	A.B. (*Oberlin c.*) '00; A.M. (*Ibid.*) '00. Physics	Blue Island
Emrich, Cora Maria, *s*	A.B. (*Butler c.*) '00; Ph.B. (*u. of Chicago*) '00. English.	Indianapolis, Ind.
Engle, Irene Victoria, *a*	A.B. (*u. of Chicago*) '06. English	Austin
Ensle, Eva Katherine, *a*	A.B. (*Indiana u.*) '99. Botany, Chemistry	Evansville, Ind.
Estrich, Charles Henry, *s*	A.B. (*Ohio Wesleyan u.*) '00; A.M. (*u. of Michigan*) '05. Geography	Edon, O.
Evans, Albert Wesley, *s*	S.B. (*u. of Chicago*) '05. Chemistry	Chicago
Evans, Mayetta Jane, *s*	Ph.B. (*Penn c.*) '90. English	Park Ridge
Ewing, Mary Florence, *a w*	Ph.B. (*De Pauw u.*) '97. English	Arcola
Ewing, Henry Ellsworth, *a w*	A.B. (*u. of Illinois*) '06. Anatomy, Chemistry	Arcola
Fernald, Grace Maxwell, *s a w*	A.B. (*Mt. Holyoke c.*) '03; A.M. (*Ibid.*) '05. Psychology (*fel.*)	Washington, D. C.
Findley, Harry P., *s*	A.B. (*Monmouth c.*) '05. Anatomy	Monmouth
Finley, George William, *s*	S.B. (*Kansas State Agricultural c.*) '96. Mathematics, Astronomy	Tonkawa, Okla.
Fischer, Nannie Louise, *s*	A.B. (*Baker u.*) '06. Romance	Baldwin, Kan.
Fisk, Harriet Storer, *w*	A.B. (*Boston u.*) '05. English, Sociology	Auburndale, Mass.
Fitch, Harry Holland, *s*	A.B. (*State u. of Iowa*) '02; A.M. (*Ibid.*) '06. Latin	Sac City, Ia.
Fitch, Kenneth Chauncey, *s*	A.B. (*u. of Michigan*) '95. Chemistry	Joliet
Fitch, Philip, *s*	A.B. (*Colorado c.*) '05. Physics (*fel.*)	Denver
Fleming, Mary Randolph, *s*	A.B. (*Randolph-Macon Woman's c.*) '02; A.M. (*Ibid.*) '02. History	Lynchburg, Va.
Flinn, Thomas Edwin, *a w*	A.B. (*Macalester c.*) '05. Anatomy	Redwood Falls, Minn.
Floyd, Eustace Vivian, *s*	S.B. (*Earlham c.*) '03. Physics	Bloomingdale, Ind.
Fogle, David Edgar, *s*	A.M. (*Georgetown c. Ky.*) '95. Latin, Romance	Georgetown, Ky.
Foudray, Elbertie, *s*	S.B. (*Northwestern u.*) '03. Chemistry	Evanston
Fowler, Earle Broadus, *a w*	A.B. (*Wake Forest c.*) '03. English, Romance	Rolesville, N. C.
Fox, Clare Delphine, *a w*	Ph.B. (*u. of Chicago*) '01. English	Chicago
Fox, Lillie Ford, *s*	S.B. (*Central c. Mo.*) '99; A.M. (*Ibid.*) '00. Physics	Lexington, Mo.

NAME	DEGREE; DEPT OF STUDY	HOME ADDRESS
Frank, Hermann August, *s*	A.B. (*u. of Wisconsin*) '05. Mathematics	Watertown, Wis.
Frazeur, Annie Laurie, *a w*	A.B. (*u. of Chicago*) '01. Latin	Normal
Frazier, Charles Rose, *s*	L.B. (*u. of Wisconsin*) '95. Philosophy	Winona, Minn.
Frizzle, Mary Beulah, *s*	A.B. ((*u. of Kansas*) '02. German	Halsted, Kan.
Fuller, George Damon, *w*	A.B. (*McGill u.*) '01. Botany	Granby, Can.
Fuller, Wilbur Newton, *s*	A.B. (*u. of Michigan*) '04. Geology, Geography	Grand Rapids, Mich.
Fulton, Jane Turner, *s*	A.B. (*Iowa c.*) '00. Latin, History, English	Atlantic, Ia.
Fulton, Mary Celia, *a w*	S.B. (*Denison u.*) '03. Zoölogy, Botany	Newark, O.
Gable, George Warren, *s*	A.B. (*Southwestern u.*) '00; A.M. (*Ibid.*) '00. English	Groesbeck, Tex.
Gaenssle, Carl, *s*	Dip. (*Concordia c.*) '93. Semitics	Milwaukee, Wis.
Gaines, Ira Julian, *s*	A.B. (*Georgetown c.*) '02. Philosophy	Versailles, Ky.
Garis, Charles Frederick Fleming, *s*	Ph.B. (*Lafayette c.*) '03. Mathematics	Easton, Pa.
Garrett, Grace Alice, *s*	A.B. (*u. of Denver*) '03. English	Chicago
Garrett, Mina Gertrude, *s*	A.B. (*u. of Denver*) '02. English	Denver, Colo.
Garten, James Edwin, *s*	A.B. (*Indiana u.*) '99. English	Washington, Ind.
Gates, Reginald Ruggles, *s a w*	A.B. (*Mt. Allison u.*) '03; A.M. (*Ibid.*) '04; S.B. (*McGill u.*) '06. Botany (*fel.*)	Middleton, Can.
George, Katy Boyd, *s*	A.B. (*Industrial inst. and c. of Mississippi*) '04. German, Romance	Hattesburg, Miss.
Gibson, Lilian Ethelyn, *s*	A.B. (*Kalamazoo c.*) '06. Latin, English	Kalamazoo, Mich.
Giduz, Hugo, *a w*	A.B. (*Harvard u.*) '05. English	Boston, Mass.
Giger, Herbert Paul, *a w*	A.B. (*Leander Clark c.* [*Western*]) '05. Mathematics	Toledo, Ia.
Gilchrist, Ralph Towns, *a w*	S.B. (*Penn c.*) '06. Anatomy, Chemistry	Oskaloosa, Ia.
Gilman, Albert Franklin, *s*	S.B. (*Amherst c.*) '97; A.M. (*Ibid.*) '01. Chemistry	Maryville, Tenn.
Gingerich, Solomon F., *s*	A.B. (*Indiana*) '05. English	Kalona, Ia.
Going, Harriet Radcliffe, *a*	A.B. (*u. of Chicago*) '02. Greek	Chicago
Gomez, y Pineda, Liborio *s w*	A.B. (*San Juan de Latran*) '03. Pathology, Physiology (*fel.*)	Calumpit, P. I.
Goodman, Herbert Marcus, *s a w*	S.B. (*u. of Chicago*) '05. Anatomy, Pathology (*fel.*)	Chicago
Gorby, John William, *s*	A.B. (*Marietta c.*) '01; A.M. (*u. of Arizona*) '03. English	Chicago
Goslin, Letitia May, *s a w*	A.B. (*Albion c.*) '02. Latin	Edwardsburg, Mich.
Gould, James Edward, *s*	Ph.B. (*u. of Washington*) '96. Mathematics	Chicago
Gove, Catherine Cutler, *s*	A.B. (*u. of Chicago*) '05. Latin	Oakfield, N. Y.
Grant, Mary Ada, *s*	S.B. (*Knox c.*) '04. Chemistry	Sparta
Grauman, Emma, *s*	A.B. (*Cornell c.*) '04. History	Louisville, Ky.
Graves, Robert Elliott, *s*	S.B. (*u. of Chicago*) '98. Physiology	Chicago
Graves, Ruth Eleanor, *s a w*	A.B. (*Fairmount c.*) '03; Ph.B. (*u. of Chicago*) '05. English	Dodge City, Kan.
Graves, Thornton Shirley, *s*	A.B. (*Texas Christian u.*) '06. English	McKinney, Tex.
Greene, Carrie Matilda, *s*	S.B. (*Upper Iowa u.*) '04; A.M. (*Ibid.*) '05. Botany, Zoölogy	Fayette, Ia.
Greer, James Richard, *w*	S.B. (*u. of Chicago*) '06. Physiology (*fel.*)	Chicago
Greeson, Walter Garfield, *s*	S.B. (*Purdue u.*) '03. Mathematics	Kokomo, Ind.
Griffith, Dudley David, *s*	A.B. (*Simpson c.*) '03. Greek	Council Bluffs, Ia.
Grunewald, Emma Mary, *a w*	Ph.B. (*Coe c.*) '06. German, English, History	Cedar Rapids, Ia.
Gulledge, Hattie, *s*	A.B. (*Industrial inst. and c. of Mississippi*) '04. English	Durant
Guthrie, Charles Claude, *s*	S.B. (*Woodlawn Inst.*) '97; M.D. (*u. of Missouri*) '01. Physiology, Pathology	St. Louis, Mo.
Haessler, Luise, *a w*	A.B. (*u. of Chicago*) '06. German	Milwaukee, Wis.
Hall, Arnold Bennett, *s*	A.B. (*Franklin c.*) '04. Political Science	Franklin, Ind.
Hall, Edith, *w*	S.B. (*u. of Chicago*) '06. Household Administration	Chicago
Hall, Elizabeth Twining, *s*	A.B. (*u. of Illinois*) '00; A.M. (*Ibid.*) '01. English	Downs
Hall, John Calvin, *s*	A.B. (*u. of Illinois*) '00. Chemistry	Whiting, Ind.
Hall, Mary Deborah, *a w*	Ph.B. (*Drake u.*) '00. Mathematics	Newton, Ia.
Ham, William Ross, *s*	A.B. (*Bates c.*) '01. Physics	Lewiston, Me.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Hamff, Christian Frederick, *a w*	A.B. (*Southwestern u.*) '06. German, Romance	Paige, Tex.
Hamilton, Robert Houston, *s*	A.B. (*Baylor u.*) '99. Political Economy	Waco, Tex.
Hanchett, William MacMicken, *s*	A.B. (*Harvard u.*) '03. Anatomy, Pathology	Council Bluffs, Ia.
Hancock, John Leonard, *a w*	A.B. (*u. of Chicago*) '05. Greek, Latin (*fel.*)	Chicago
Hann, Frank L., *s*	Ph.B. (*Cornell c.*) '02; Ph.M. (*Ibid.*) '03. Chemistry	Mt. Vernon, Ia.
Hannan, Anna Aloydhia, *s*	Ph.B. (*u. of Chicago*) '05. History	Milwaukee, Wis.
Hansen, Arthur Walter, *a w*	Ph.B. (*Lawrence u.*) '03. Chemistry	Appleton, Wis.
Harley, Theodore Lincoln, *s*	A.B. (*Dartmouth c.*) '93; A.B. (*Harvard u.*) '94. English	Chicago
Harmon, Lola Marie, *s a w*	Ph.B. (*u. of Chicago*) '99. Sociology	Alexandria, Mo.
Harper, George Andrew, *s*	A.B. (*Cedarville c., Ohio*) '01. Mathematics	Jamestown, O.
Harper, Samuel Northrup, *a w*	A.B. (*u. of Chicago*) '02. Political Science	Chicago
Harrigan, Frank Elwood, *s*	S.B. (*u. of Wisconsin*) '01. Pathology	Milwaukee, Wis.
Harris, Eleanora, *s*	A.B. (*u. of Kansas*) '94. Mathematics	Belleville, Kan.
Harrod, Samuel Glenn, *s*	A.B. (*Eureka c.*) '03. Latin, Greek	St. Augustine
Hartigan, Eugene Lawrence, *a w*	Ph.B. (*u. of Chicago*) '04. Anatomy, Zoölogy	Chicago
Hartman, Walter Theobald, *w*	Ph.B. (*Yale u.*) '00. Mathematics, Physics	Chicago
Hartshorn, Myra Strawn, *a w*	A.B. (*u. of Chicago*) '00. Public Speaking, English	Chicago
Hatfield, Walter Wilbur, *s*	A.B. (*Illinois c.*) '02. Psychology	Chicago
Hathorne, Maxie, *s*	A.B. (*Mississippi Industrial inst. and c.*) '05. Latin	Columbus, Miss.
Hatton, Augustus Raymond, *a w*	Ph.B. (*Franklin c.*) '98. Political Science, History	Chicago
Hawkes, Julia M., *s*	L.B. (*Carleton c.*) '01. Physics	Wasua, Minn.
Hayes, Joseph William, *s a w*	A.B. (*Rochester c.*) '03. Philosophy (*fel.*)	Rochester, N. Y.
Hayes, Mary Holmes Stevens, *s a w*	A.B. (*u. of Wisconsin*) '04. Psychology, Philosophy	Chicago
Hayes, Zella Bernice, *a w*	A.B. (*u. of Illinois*) '00. English	Rankin
Hayford, Leslie, *w*	Ph.B. (*Tufts c.*) '02. English	St. Johnsbury, Vt.
Haynes, Landon Carter, *s*	A.B. (*Greenville and Tusculum c.*) '77. Mathematics	Greenville, Tenn.
Hearon, Cleo, *s*	Ph.B. (*u. of Chicago*) '03. History	Columbus, Miss.
Heath, Harry Colson, *s*	S.B. (*Cornell c.*) '03. Geology	Clear Lake, Ia.
Heil, Herman Gustavus, *s*	Ph.B. (*u. of Chicago*) '05. Physics	Chicago
Helleberg, Victor Emmanuel, *a w*	A.B. (*Yale u.*) '83. Sociology, Psychology (*fel.*)	Chicago
Helms, Aman Thomas, *s*	A.B. (*Wofford c.*) '02. English, Romance, Mathematics	St. Mathews, S. C.
Henderson, Herman Charles, *s*	A.B. (*u. of New Brunswick*) '89; A.B. (*u. of Chicago*) '95. Philosophy	Milwaukee, Wis.
Henderson, Sara Emily, *s*	Ph.B. (*u. of Chicago*) '02. English	Knoxville, Ia.
Hendricks, Eldo Lewis, *s*	S.B. (*Franklin c.*) '94; A.M. (*Indiana u.*) '99. English	Delphi, Ind.
Hendricks, Edna, *s*	A.B. (*Kansas u.*) '05. German	Humboldt, Kan.
Henley, Ralph Bernard, *s a w*	S.B. (*Earlham c.*) '00. Philosophy	Monrovia, Ind.
Hennings, Albert Edward, *a w*	A.B. (*Lake Forest u.*) '04; A.M. (*Ibid.*) '04. Physics, Mathematics, Chemistry	Barrington
Henry, Elizabeth, *s*	Ph.B. (*u. of Chicago*) '00. English	Camp Point
Herrmann, William Christian, *w*	A.B. (*Northwestern u.*) '95. Latin	Chicago
Hess, Phares Gross, *s*	A.B. (*Bucknell u.*) '05. Physics	Lewisburg, Pa.
Hewitt, Fenelon Dobyns, *s*	Ph.B. (*Mississippi c.*) '05. Political Science	Summitt, Miss.
Hiatt, William Oscar, *s*	A.B. (*Indiana u.*) '94. Philosophy	Frankfort, Ind.
Hickman, William Weldon, *a w*	A.B. (*Monmouth c.*) '06. Chemistry, Physics	Indianola, Ia.
Hill, Albert Ellsworth, *a w*	A.B. (*u. of Chicago*) '99. English	Chicago
Hill, James Madison, *a w*	S.B. (*u. of Chicago*) '06. Geology	Chicago
Hillerman, Ida, *s*	A.B. (*Mississippi State c.*) '04. English	Kosciusko, Miss.
Hills, Thomas McDougall, *a w*	Ph.B. (*Wooster u.*) '02. Geology	Wooster, O.
Hilmer, William Charles, *s*	A.B. (*German Wallace c.*) '99. German	Fayette, Ia.
Hinckley, Franklin Arza, *s*	S.B. (*Brigham Young c.*) '01. Physics	St. Johns, Ariz.
Hinckley, Theodore Ballou, *a w*	Ph.B. (*u. of Chicago*) '04. English	Chicago

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Hoare, Arthur Joseph, *s*	A.B. (*u. of Michigan*) '00; A.M. (*Ibid.*) '02. Mathematics	Fremont, Mich.
Hobbs, Charles Alfred, *w*	A.B. (*Brown u.*) '05. Anatomy	Chicago
Hobbs, Lucy Edith, *s*	S.B. (*Cornell c.*) '00. History, English	Manson, Ia.
Hodges, Julian Van, *s*	Ph.B. (*Emory c.*) '03. Chemistry	Hagansville, Ga.
Holbrook, Edna Marie, *s*	S.B. (*u. of Michigan*) '97. Botany	Plymouth, Mich.
Hole, Allen David, *s w*	S.B. (*Earlham c.*) '97; A.M. (*Ibid.*) '01. Geology	Richmond, Ind.
Holland, Florence, *s*	A.B. (*Iowa Wesleyan u.*) '02. German	Kenton, O.
Hollingsworth, John Emory, *a w*	A.B. (*Penn c.*) '02; A.M. (*Ibid.*) '03; A.B. (*Haverford c.*) '03. Greek, Latin	New Sharon, Ia.
Holman, Mary, *s*	A.B. (*Washington u.*) '05. Chemistry	St. Louis, Mo.
Holmes, Helen Angell, *s*	L.B. (*Oberlin c.*) '03. English	Oak Park
Holt, Albert Campbell, *s*	A.B. (*Park c.*) '05. Greek	Tusculum, Tenn.
Holt, William Pearce, *s*	A.B. (*Oberlin c.*) '98. Geology, Geography	Toledo, O.
Honea, Thomas Carlton, *a*	A.B. (*Texas-Christian c.*) '05. Anatomy	Cleburne, Tex.
Hopkins, Annette Brown, *s*	A.B. (*Woman's c. of Baltimore*) '01. English	Baltimore, Md.
Hoppen, May Myrtelle, *s*	A.B. (*Woman's c. of Baltimore*) '97. English	Baltimore, Md.
Horn, Charles Henry, *s*	A.B. (*Oliver c.*) '92; A.M. (*Ibid.*) '95. English	Grinnell, Ia.
Horn, Charles Ellsworth, *a w*	A.B. (*Waynesburg c.*) '97; A.M. (*Ibid.*) '00; A.M. (*Harvard u.*) '04. Semitics (*fel.*)	Waynesburg, Pa.
Hornstein, Fred, *s a*	Ph.B. (*u. of Chicago*) '05. Philosophy	Chicago
Hoss, Elizabeth Katherine, *s*	A.B. (*u. of Chicago*) '04. English	Greenwood, La.
Hotson, John William, *a w*	A.B. (*McMasters u.*) '01; A.M. (*Ibid.*) '02. Botany	Inneskip, Can.
House, Ralph Emerson, *s w*	L.B. (*u. of Missouri*) '00; A.M. (*Ibid.*) '00. Romance	Salt Lake, Utah
Hovde, Carl Herman Rieber, *s*	A.B. (*Luther c.*) '04. Anatomy, Physiology	Blair, Wis.
Howell, Katharine, *s*	A.B. (*u. of Chicago*) '05. Anatomy	Chicago
Howren, Mary Hannah, *s*	A.M. (*Southwestern u.*) '90. English	Georgetown, Tex.
Howser, John Paul, *s*	S.B. (*u. of Texas*) '04. Anatomy	Austin, Tex.
Huggett, Lillian Gertrude, *s*	A.B. (*u. of New Mexico*) '06. German	Gallup, N. M.
Hughes, William Talmadge, *s a w*	S.B. (*Yankton c.*) '05. Anatomy, Chemistry	Braymer, Mo.
Hull, Arthur Morris, *s*	A.B. (*Drury c.*) '01. English	Springfield, Mo.
Hunt, Hettie, *a w*	A.B. (*Earlham c.*) '96. Latin	Charlottsville, Ind.
Hunter, Olive, *a*	A.B. (*Wellesley c.*) '06. English	Chicago
Hussey, Bertha, *s*	A.B. (*Shurtleff c.*) '01. Greek	Upper Alton
Hutton, Sylvan Miller, *s*	A.B. (*Princeton u.*) '02. English	Lewisberry, Pa.
Ichinohe, Naoza, *s a w*	(*Imperial u. of Tokio*) Astronomy (*fel.*)	Rigakushi, Japan.
Ingold, Louis, *s a w*	A.B. (*u. of Missouri*) '01; A.M. (*Ibid.*) '02. Mathematics (*fel.*)	Columbia, Mo.
Inman, Austin Willis, *a w*	A.B. (*Indiana u.*) '06. History	Odon, Ind.
Irwin, Keith Gordon, *s*	S.B. (*Knox c.*) '04. Chemistry	Galesburg
Isely, Frederick B., *s*	S.B. (*Fairmount c.*) '99. Zoölogy	Wichita, Kan.
Ivy, Horace Macaulay, *s*	A.B. (*Central c.*) '03; A.M. (*Ibid.*) '04. History	Yazoo City, Miss.
Jackson, Dennis Emerson, *a w*	A.B. (*Indiana u.*) '04. Physiology, Chemistry	Linton, Ind.
James, Lina Baylis, *s*	A.B. (*Vassar c.*) '92. Latin	Amenia, N. Y.
James, William Alonzo, *s*	A.B. (*u. of Texas*) '94; A.M. (*Ibid.*) '95. Chemistry	Galveston, Tex.
Jamieson, William Henry, *s*	L.B. (*u. of Wisconsin*) '01. Chemistry	Burlington, Wis.
Jarvis, Lutie Vivian, *s*	S.B. (*Shurtleff c.*) '05. Latin	Rock Island
Jeffries, James Lindsay, *s*	A.B. (*Carson Newman c.*) '04. Physics, Mathematics	Trundles Cross Roads, Tenn.
Jensen, George Christian, *s*	A.B. (*Brigham Young c.*) '03. English	Logan, Utah
Johann, Albert Eugene, *s*	A.B. (*Christian u., Mo.*) '05. Physics	Canton, Mo.
Johnson, Alta, *s*	Ph.B. (*u. of Colorado*) '93. Mathematics, Physics	Mooresville, Ind.
Johnson, Cecilia, *w*	Ph.B. (*u. of Chicago*) '06. History	Chicago
Johnson, Clarence Edward, *s*	A.M. (*South Carolina c.*) '95. English	Union, S. C.
Johnson, Henry Charles, *s*	Ph.B. (*State u. of Iowa*) '02. Education	Decorah, Ia.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Johnson, Herman Patrick, *s*	A.B. (*South Carolina c.*) '04. English	Columbia, S. C.
Johnson, Mary Elizabeth, *s*	A.B. (*Baptist u., Raleigh*) '03. English	Colosse, Va.
Johnston, Mary Christian, *s*	S.B. (*u. of Tennessee*) '03. English, Romance	Knoxville, Tenn.
Johnstone, Ernest Marshal, *a w*	S.B. (*Pomona c.*) '04. Anatomy	San Dimas, Cal.
Jones, Anna Cordelia, *s*	A.B. (*Indiana u.*) '04. Latin	Fort Wayne, Ind.
Jones, Anna Susan, *s*	A.B. (*u. of Michigan*) '89. Latin	Grand Rapids, Mich.
Jones, Elsie Voorhees, *a w*	Ph.B. (*Syracuse u.*) '05. History, Latin	Rochester, N. Y.
Jones, Etta Campbell, *a*	L.B. (*Knox c.*) '96. German	Chicago
Jones, J. Claude, *a w*	A.B. (*u. of Illinois*) '02. Geology	Chicago
Jones, John Samuel William, *s*	A.B. (*Washington c.*) '89; A.M. (*Ibid.*) '92. Mathematics	Chestertown, Md.
Jones, Roger Miller, *a w*	A.B. (*Denison u.*) '05. Greek, Latin (*fel.*)	Newark, O.
Jordan, Frank Craig, *s a w*	Ph.B. (*Marietta c.*) '89; A.M. (*Ibid.*) '92. Astronomy, Mathematics	Colorado Springs, Colo.
Kalp, William Lawrence, *s*	A.B. (*Bucknell c.*) '03. Anatomy	Mt. Pleasant, Pa.
Kaminski, Lilian Virginia, *s*	A.B. (*Earlham c.*) '98. Greek	Richmond, Ind.
Katz, Frank James, *a w*	A.B. (*u. of Wisconsin*) '05. Geology (*fel.*)	Milwaukee, Wis.
Keeble, William Houston, *s a w*	S.B. (*u. of Tennessee*) '03. Physics	Bank, Tenn.
Keith, Arthur Leslie, *s*	A.B. (*u. of Nebraska*) '98. Latin	Salina, Kan.
Kellogg, Anna Allen, *s*	Ph.B. (*u. of Chicago*) '03. German	Peoria
Kelso, William Gordon, *a*	A.B. (*Princeton u.*) '05; A.M. (*Ibid.*) '06. Psychology (*fel.*)	Jersey City, N. J.
Kemp, John Henry, *s a w*	A.B. (*Brigham Young c.*) '04. Chemistry	Logan, Utah
Kennedy, Alfred, *s*	A.M. (*Queens u.*) '01. Mathematics	Kingston, Can.
Key, David Martin, *s*	A.B. (*Central c., Mo.*) '98. Greek	Nashville, Tenn.
Kildahl, Nilsine Johanna, *s a w*	A.B. (*u. of North Dakota*) '98; A.M. (*Ibid.*) '00. Botany	Maza, N. D.
Kimmons, John H., *s*	S.B. (*Drury c.*) '95; A.B. (*Harvard u.*) '98. Physics, Zoölogy	Chicago
Kingsbury, Alice Reynolds, *s*	A.B. (*Yankton c.*) '90; A.M. (*Ibid.*) '96. Romance, German	Sioux Falls, S. D.
Kingsbury, Joseph Lyman, *s*	A.B. (*Dartmouth c.*) '05. History	St. Louis, Mo.
Kirkpatrick, Charles, *s*	A.B. (*Cornell c.*) '01. Physics, Chemistry	Spencer, Ia.
Kirkwood, William Alexander, *s*	A.B. (*u of Toronto*) '95; A.M. (*Ibid.*) '05. Greek	Brampton, Can.
Knight, Flora Cornelia, *a w*	A.B. (*u. of Wyoming*) '00. English	Laramie, Wyo.
Knight, Harriet, *s*	A.B. (*u. of Wyoming*) '98. History	Cheyenne, Wyo.
Knight, Henry Granger, *s*	A.B. (*u. of Washington*) '02. Chemistry	Laramie, Wyo.
Knight, Lee Irving, *s*	A.B. (*u. of Illinois*) '01. Botany	Crowley, Ia.
Knott, Thomas Albert, *s a w*	A.B. (*Northwestern u.*) '02. English (*fel.*)	Chicago
Knowlton, Ansel Alphonso, *a w*	A.B. (*Bates c.*) '98. Physics	Chicago
Knox, Ruth, *s*	L.B. (*Carleton c.*) '05. English	Jackson, Minn.
Koenig, Alfred Edmund, *s*	A.B. (*Redfield c.*) '06. German	Vinton, Ia.
Kohr, Walter Roman, *s*	A.B. (*Lebanon Valley c.*) '04. Botany	York, Pa.
Koller, Armin Hajman, *a w*	A.B. (*Adelbert c.*) '05; A.M. (*Ibid.*) '06. German	Cleveland, O.
Korns, John Hamilton, *s a w*	A.B. (*Ohio Wesleyan u.*) '04. Anatomy, Chemistry	Mt. Victory, O.
Kostomlatsky, Zulema, *s*	Ph.B. (*State u. of Iowa*) '95. Botany, Geology	DesMoines, Ia.
Kroesch, Samuel, *s a w*	A.B. (*u. of Missouri*) '01. German, Latin	Edmond, Okla.
Kuehne, John Matthias, *s a w*	S.B. (*u. of Texas*) '99; S.M. (*Ibid.*) '01. Physics (*fel.*)	Austin, Tex.
Kuntz, Albert, *s*	A.B. (*Charles City c.*) '04. Chemistry	Ridgeway, Ia.
Laganke, Wilbur Edmund, *a w*	S.B. (*Case s.*) '06. Psychology, English	Cleveland, O.
Lagergren, Siegrid Anna, *a*	Ph.B. (*u. of Chicago*) '03. German	Morgan Park
Lancaster, Robert Lee, *s*	A.B. (*Owensboro c.*) '03; A.M. (*Ibid.*) '05. Psychology	Owensboro, Ky.
Landacre, Francis LeRoy, *s*	A.B. (*Ohio State u.*) '95. Zoölogy	Columbus, O.
Lane, Ruth Lillian, *s*	Ph.B. (*Northwestern u.*) '03. History	Winona, Minn.
Langellier, Roxane Emilie, *s*	Ph.B. (*u. of Chicago*) '02. Romance	Watseka

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Larew, Gillie Aldah, *s*	A.B. (*Randolph-Macon Woman's c.*) '03. Mathematics	Newbern, Va.
Laube, Herbert David, *s*	L.B.(*u. of Wisconsin*) '03. Political Science	Broadhead, Wis.
Lavender, Roberta Frances, *s*	L.B. (*u. of Texas*) '96; A.M. (*Ibid.*) '02. Latin	Austin, Tex.
Law, Isabella, *s*	A.B. (*Carleton c.*) '02. Latin	Northfield, Minn.
Layton, Joseph Edward, *s*	A.B. (*Indiana u.*) '04. Sociology	Attica, Ind.
Leckrone, Charles, *s*	A.B. (*Indiana u.*) '01. Education	Charleston
LeDrew, Henry Herbert, *s*	S.B. (*Toronto u.*) '05. Political Economy	Guelph, Can.
Lee, Alfred O., *s*	M.D. (*u. of Berlin*) '98. Anatomy, Pathology	Chicago
Lee, Emmett Lehr, *a w*	Ph.B. (*Iowa c.*) '05. Anatomy, Pathology	Grinnell, Ia.
Lee, Frances Adelia, *s*	A.B. (*Wilberforce u.*) '99. English	Wilberforce, O.
Lee, Judson Fiske, *s a w*	A.B. (*Des Moines c.*) '04; A.M. (*State u. of Iowa*) '05. History	Wick, Ia.
Lee, Mary Margaret, *a w*	Ph.B. (*u. of Chicago*) '06. Political Economy	Baltimore, Md.
Leonard, Elizabeth Eleanor, *s*	A.B. (*Wellesley c.*) '05. History	Chicago
Lermit, Geraldine Rosemary, *a w*	A.B. (*Wellesley c.*) '06. Sociology	Chicago
Lewis, Winford Lee, *s a w*	A.B. (*Leland Stanford u.*) '02; A.M. (*u. of Washington*) '04. Chemistry (*fel.*)	Gridley, Colo.
Libis, Metta Maud Miller, *s*	A.B. (*Oberlin c.*) '97. English	Chicago
Life, Andrew Creamor, *s*	A.B. (*Indiana u.*) '96; A.M.(*Ibid.*) '97. Botany	Fairmount, Ind.
Lindeblad, Carl G., *s*	A.B. (*Augustana c.*) '04. Anatomy, Physiology	LaGrange
Lofberg, John Oscar, *s*	A.B. (*Stetson u.*) '05; A. B. (*u. of Chicago*) '06. Greek	DeLand, Fla.
Lofty, John, *s*	A.B. (*u. of Kansas*) '99. Botany	Salina, Kan.
Logeman, May Margaret, *s*	L.B. (*Northwestern u.*) '00. German	Chicago
Longley, Joanna Hey, *s*	Ph.B. (*Kalamazoo c.*) '03; Ph.B. (*u. of Chicago*) '04. History	Kalamazoo, Mich.
Lott, Emma Marie, *s*	L.B. (*Olivet c.*) '87. Mathematics	Lansing, Mich.
Lovering, Maude, *s w*	Ph.B. (*Oberlin c.*) '99. English	Findley, O.
Lovitt, William Vernon, *a w*	A.B. (*u. of Nebraska*) '03. Mathematics	Lincoln, Neb.
Lowe, Ephraim Noble, *s*	S.B. (*u. of Mississippi*) '84. Geology	University, Miss.
Lowe, William Charles, *s*	Ph.B. (*Syracuse u.*) '03; Ph.M. (*Ibid.*) '04. German	Syracuse, N. Y.
Luckhardt, Arno Benedict, *a w*	S.B. (*u. of Chicago*) '06. Anatomy	Chicago
Luebke, William Ferdinand, *s*	A.B. (*u. of Wisconsin*) '04. German	Horicon, Wis.
Lussky, George Frederick, *a w*	Grad. (*Concordia c.*) '05. Greek, Latin	Ottawa
Luther, Otto Lawrence, *s*	A.B. (*u. of Illinois*) '02; A.B. (*u. of California*) '04. History	Seattle, Wash.
Madtson, Martha Marie, *a w*	A.B. (*Washburn c.*) '05. Anatomy, Chemistry	Beloit, Kan.
Magee, Phoebe Amelia, *s*	A.B. (*u. of Toronto*) '05. English	Toronto, Can.
Major, Ralph, *s*	A.B. (*William Jewell c.*) '02. Physiology, Zoölogy	Liberty, Mo.
Maley, George Elzear, *a w*	S.B. (*Knox c.*) '06. Pathology	Galesburg
Mangum, Charles Staples, *s*	A.B. (*u. of North Carolina*) '91. Anatomy	Chapel Hill, N. C.
Manning, Priestly Hartwell, *s*	A.B. (*u. of Nashville*) '90; A.M. (*Ibid.*) '91. Geology	Nashville, Tenn.
Marlatt, Anna Orra, *s*	Ph.B. (*DePauw u.*) '03. Latin	Connersville, Ind.
Marlatt, Ella Newton, *s*	Ph.B. (*DePauw u.*) '04. German	Connersville, Ind.
Martin, Edna Lisle, *s*	Ph.B. (*u. of Chicago*) '05. Romance	Blue Island
Martin, James Victor, *s*	Ph.B. (*Cornell c.*) '98. German, English	Mt. Vernon, Ia.
Marx, Nanna Eiles, *s a*	S.B. (*u. of Chicago*) '05. Geology, Geography	Chicago
Meek, Elizabeth Breckinridge, *a*	S.B. (*Pennsylvania State c.*) '89; S.M. (*Ibid.*) '98. Bacteriology	Bellefonte, Pa.
Meek, Mary, *a w*	A.B. (*Indiana u.*) '00. History, English	Elwood, Ind.
Meek, Walter Joseph, *s*	A.B. (*u. of Kansas*) '02. Neurology, Physiology	Oskaloosa, Ia.
Meers, Gertrude Eunice, *s*	A.B. (*Drake u.*) '02. English	Centerville, Ia.
Meigs, Grace Lynde, *s*	A.B. (*Bryn Mawr c.*) '03. Pathology, Physiology	Keokuk, Ia.
Meinzer, Oscar Edward, *a w*	A.B. (*Beloit c.*) '01. Geology, Chemistry (*fel.*)	Davis
Melody, Genevieve, *s w*	Ph.B. (*u. of Chicago*) '03. History	Chicago

NAME	DEGREE ; DEPT. OF STUDY	HOME ADDRESS
Melton, George Lane, *a*	Ph.B. (*u. of Chicago*) '02. History, Political Science	Chicago
Mennet, Robert Leonvals, *s*	E.B. (*Tulane u.*) '00. Mathematics	New Orleans, La.
Merrifield, Cyrus Reed, *s*	A.B. (*Ottawa u.*) '97. Mathematics	Grand Island, Neb.
Merrill, Albert Eli, *a w*	A.B. (*u. of Chicago*) '02. Physics, Chemistry (*fel.*)	Chicago
Milbradt, Herman Gustav, *s*	L.B. (*u. of Wisconsin*) '03. German, History	Edgar, Wis.
Miles, Dudley Howe, *s*	A.B. (*Southwestern u.*) '02. English	University, Miss.
Miller, Effie Windle, *s*	L.B. (*Northwestern u.*) '02. History	Chicago
Miller, Kate Belle, *s a w*	Ph.B. (*u. of Chicago*) '02. English	Chicago
Miller, Sebastian Christian, *a w*	A.B. (*MacPherson c.*) '06. English	MacPherson, Kan.
Miller, Wiley Austin, *s*	A.B. (*Hiram c.*) '04. History, Political Economy	Culver, Ind.
Millner, George Ethan, *s a w*	S.B. (*Morningside c.*) '06. Chemistry	Sioux City, Ia.
Mills, Herbert R., *a w*	S.B. (*Cornell c.*) '06. Anatomy, Chemistry	Mt. Vernon, Ia.
Miltenberger, Robert Edgar, *a w*	A.B. (*u. of Wisconsin*) '06. Anatomy, Physiology	Randolph, Wis.
Minor, Jessie Elizabeth, *s*	S.B. (*Drury c.*) '04. Chemistry	Springfield, Mo.
Mitchell, Clara Jane, *s*	A.B. (*Indiana u.*) '97. Political Science	Mitchell, Ind.
Mitchell, John Weems, *s a w*	A.B. (*Maryville c.*) '04. Mathematics, Astronomy	Moshum, Tenn.
Mitchell, Matie, *s*	A.B. (*Southwestern u.*) '03. English	Wheelock, Tex.
Mode, Rowland Hector, *a w*	A.B. (*u. of Toronto*) '98; A.M. (*Ibid.*) '99; Th.B. (*McMasters u.*) '01; D.B. (*Ibid.*) '02. Semitics	Toronto, Can.
Monsch, Genevieve Antoinette, *s*	S.B. (*u. of Chicago*) '02. Botany, Zoölogy	Louisville, Ky.
Moodie, Roy Lee, *a w*	A.B. (*u. of Kansas*) '05. Paleontology, Geology (*fel.*)	Lawrence, Kan.
Mooney, William West, *s a w*	A.B. (*Vanderbilt u.*) '99; A.M. (*Ibid.*) '04. Latin	Brentwood, Tenn.
Moore, Bertha, *s a w*	A.B. (*u. of Chicago*) '03. Household Administration	Georgetown, Tex.
Moore, David Richard, *s a w*	A.B. (*u. of Toronto*) '02. History, English, Mathematics	Coral, Can.
Moore, Myra May, *a w*	Ph.B. (*Ottawa u.*) '04. English, Latin	Ottawa, Kan.
Moore, William Cabler, *a w*	S.B. (*u. of Nashville*) '03. Chemistry	Nashville, Tenn.
Morgan, Katharine Merrel, *s*	A.B. (*Vassar c.*) '03. Greek, Latin	Kansas City, Mo.
Morris, Robert, *s*	S.B. (*Rutgers c.*) '99; S.M. (*Ibid.*) '02. Mathematics	New Brunswick, N. J.
Morris, Robert, *s w*	A.B. (*u. of Nashville*) '97; A.M. (*u. of Virginia*) '99; A.M. (*Harvard*) '02. Political Economy	Chicago
Morrison, Guy Bure, *a*	A.B. (*Yale u.*) '04. Chemistry	Lincoln, Neb.
Morrison, Hugh Tucker, *s*	A.B. (*Drake u.*) '00. Chemistry	Springfield
Morse, Ernest Powell, *s*	A.B. (*Acadia c.*) '87; A.B. (*Harvard u.*) '92. Mathematics	Kansas City, Mo.
Mondy, Alice Maud, *s*	A.B. (*u. of Wyoming*) '97. Romance	Laramie, Wyo.
Mudge, Ruth Attwill, *s*	S.B. (*Kansas State Agricultural c.*) '04. Botany	Manhattan, Kan.
Mueller, Olga, *s*	S.B. (*u. of Wisconsin*) '96; A.M. (*u. of Minnesota*) '03. Chemistry	Seattle, Wash.
Mueller, Robert Gottlieb, *s*	A.B. (*u. of Kansas*) '01. Philosophy	Hoxie, Kan.
Muenchow, Julius William, *s*	(*Concordia c.*) '02. Greek, Latin, Comparative Religion	Winthrop, Minn.
Munro, Daniel Colin, *a w*	A.B. (*Bowdoin c.*) '03 Anatomy, Physiology	Gardiner, Me.
Myers, Perry Cullen, *s*	S.B. (*State u. of Iowa*) 99. Botany	Winona, Wis.
MacBride, Caroline Leonora, *a w*	Ph.B. (*u. of Chicago*) '06. German, English	Lyons
McBride, Maude Lilian, *s*	L.B. (*Park c.*) '98. English, German	Benton, Kan.
McCain, James Ross, *s*	A.B. (*Erskine c. S. C.*) '00; LL.B. (*Mercer u.*) '01. English, History	Rome, Ga.
McCamant, Catharine, *s*	S.B. (*Wellesley c.*) '87. History	Bethlehem, Pa.
McClanahan, Bessie Bell, *s*	A.B. (*Trinity u.*) '89. English	McKenzie, Tenn.
McClement, William Thomas, *s*	A.B. (*Queens u.*) '88: A.M. (*Ibid.*) ,89. Botany	Kingston, Can.
MacClintock, Samuel, *a w*	Ph.B. (*u. of Chicago*) '96. Political Science, Political Economy (*fel.*)	Lexington, Ky.
McCormick, Thomas Holmes, *s*	A.B. (*Hiram c.*) '02. Mathematics	Fort Wayne, Ind.
McCoy, William Taggart, *s*	A.B. (*Hanover c.*) '95; A.M. (*Ibid.*) '98. Latin, Greek	Chicago
McCrady, Mac Harvey, *s*	S.B. (*Beloit c.*) '06. Zoölogy	Lancaster, Wis.
McDaniel Marion Ross, *s*	S.B. (*Rio Grande c.*) '02; S.M. (*Ibid.*) '05. Physics	Rio Grande, O.

NAME	DEGREE ; DEPT. OF STUDY	HOME ADDRESS
McDermott, John Augustine, *w*	S.B. (*u. of Maine*) '05. Chemistry	Biddeford, Me.
McGill, Caroline, *s*	A.B. (*u. of Missouri*) '04; A.M. (*Ibid.*) '05. Pathology	Columbia, Mo.
McGrath, Edward, *s a w*	Ph.B. (*u. of Wisconsin*) '02. Anatomy	Chicago
McGuane, Francis Xavier, *s*	S.B. (*u. of Chicago*) '05. Chemistry	Pullman
McIntosh, John Stayer, *s a w*	A.B. (*Cornell c.*) '99. Greek, Latin	Fayette, Ia.
McIntosh, Leland Carson, *s*	A.B. (*Wake Forest c.*) '99. Romance	Brandon, Miss.
MacKellar, Jennie Edith, *a w*	Ph.B. (*State u. of Iowa*) '03. History	Waterloo, Ia.
McKenzie, Minnie Elizabeth, *s*	Ph.B. (*u. of Chicago*) '05. Sociology	Cincinnati, O.
McKie, John Francis, *a w*	S.B. (*Fargo c.*) '06. Chemistry, Anatomy	Northboro, Ia.
McKinstry, Grace, *s*	S.B. (*Columbia u.*) '03; A.M. (*Ibid.*) '06. History, Romance, English	Fredonia, N. Y.
McKnight, Robert James George, *a w*	A.B. (*Geneva c.*) '96; A.B. (*Princeton Theological Sem.*) '00. Semitics (*fel.*)	Beaver Falls, Pa.
McMurtry, Tillman Ephraim, *s a w*	S.B. (*u. of Chicago*) '00. Sociology	Chicago
MacNider, William de Berniere, *s*	(*u. of S. Carolina*) '03. Antomy	Chapel Hill, N. C.
McSwain, Robert Brown, *a w*	A.B. (*Vanderbilt u.*) '97; D.B. (*Ibid.*) '05. Semitics (*fel.*)	Emmett, Ark.
McVay, Bruce, *s*	A.B. (*Dakota Wesleyan u.*) '99. History	Woonsocket, S. D.
Nabours, Robert Kirkland, *s a*	Ed.B. (*u. of Chicago*) '05. Education, Zoölogy	Recknor, La.
Naylor, Wilson S., *s*	A.B. (*Washburn c.*) '90; S.T.B. (*Boston u.*) '93. General Literature	Appleton, Wis.
Neighbors, Owen Jones, *s*	A.B. (*Western c. Md.*) '05. Education	Buckeystown, Md.
Nesbit, Mary Frances, *s*	A.B. (*u. of Illinois*) '01. Mathematics	Oakland
Nichols, William Crane, *s*	A.B. (*u. of Wisconsin*) '04. Physiology	Fargo, N. D.
Nicoll, Homer King, *w*	A.B. (*Tarkio c.*) '04. Anatomy	Tarkio, Mo.
Nirdlinger, Sidney, *s*	S.B. (*Knox c.*) '06. Chemistry	Galesburg
Nobili, Amedo Corrado, *s a w*	(*Agragria of Italy*) '85; (*Boston u.*) '99. Romance	Chicago
North, Cecil Clare, *s a w*	A.B. (*u. of Nebraska*) '02; D.B. (*u. of Chicago*) '05. Sociology, History (*fel.*)	Bridgeport, Neb.
Norton, Alice Peloubet, *a w*	A.B. (*Smith c.*) '82; A.M. (*Ibid.*) '97. Chemistry	Chicago
Oakes, Francis Corem, *s*	A.B. (*u. of Oklahoma*) '03. German	Edmond, Okla.
Obenchain, Jeannette, *a w*	Ph.B. (*u. of Chicago*) '06. Anthropology, Zoölogy	Miami, Fla.
O'Connor, John Bartholomew, *a*	A.B. (*Rochester u.*) '97. Latin, Greek	Indianapolis, Ind.
Odebrecht, Auguste, *s*	Ph.B. (*Denison u.*) '06. Romance	Granville, O.
Oliver, Edward Allen, *a w*	A.B. (*Kenyon c.*) '05. Anatomy, Chemistry	Chicago
Ott, William Pinkerton, *s*	A.B. (*Washington and Lee u.*) '00: A.M. (*Ibid.*) '01. Mathematics	Lexington, Va.
Owen, David Allen, *s*	A.B. (*Franklin c.*) '78; A.M. (*Ibid.*) '81. Bacteriology	Franklin, Ind.
Owens, Christopher Columbus, *s*	A.B. (*Atlanta u.*) '04. Mathematics	Jackson, Tenn.
Ozanne, Herbert Giles, *a w*	A.B. (*Northwestern u.*) '99. Biblical Greek, Philosophy, Latin	Chicago
Pahlman, Ida May, *s*	Ph.B. (*u. of Chicago*) '03. Psychology	Chicago
Paine, John Colwell, *a w*	S.B. (*u. of Chicago*) '06. Physiology	Chicago
Palmer, Robert Hastings, *s*	A.B. (*Adrian c.*) '06. Botany	Blissfield, Mich.
Parker, Carl Horace, *a w*	S.B. (*Pomona c.*) '05. Anatomy, Chemistry	Pasadena, Calif.
Parker, Francis LeJan, *s*	S.B. (*u. of Chicago*) '00. Anatomy	Charleston, S. C.
Parker, Marilla Zeroyda, *s*	Ph.B. (*u. of Chicago*) '99. History	Brodhead, Wis.
Parks, William Alvah, *a w*	S.B. (*u. of Chicago*) '06. Physiology	Minonk
Parmenter, William Watts, *s*	A.B. (*Ohio State u.*) '00 Physics,	Steubenville, O.
Parshall, Ralph Leroy, *s*	S.B. (*Agricultural c. of Colorado*) '04. Physics	Fort Collins, Colo.
Parsons, Forest Lee, *s*	A.B. (*u. of Wisconsin*) '05. Anatomy, Physiology	Berlin, Wis.
Paschal, Rosa Catherine, *s*	A.B. (*Baptist u. N. Carolina*) '02. Political Economy	Goldston, N. C.
Paterson, Archibald, *s*	A.B. (*u. of Dublin*) '04. English	Chicago
Patterson, Charles Clayton, *s*	A.B. (*Denison u.*) '05. Greek	Vandergrift, Pa.
Patterson, James, *a w*	S.B. (*u. of Chicago*) '05. Anatomy	Chicago
Patterson, John Thomas, *s a w*	S.B. (*Wooster u.*) '03. Zoölogy, Botany	Piqua, O.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Patterson, Lucy, *s*	Ph.B. (*Wooster u.*) '01. English	Piqua, O.
Patterson, Theresa, *a w*	S.B. (*u. of Chicago*) '06. Botany	Butler, Mo.
Patton, Eugene Bryan, *a w*	A.B. (*Washington u.*) '04. Political Economy, History (*fel.*)	Columbia, Tenn.
Patton, Julia, *s*	A.B. (*Oberlin c.*) '95. English	Mt. Vernon, Ia.
Pavlicek, Frank Joseph, *s*	Ph.B. (*Ohio State u.*) '01. English	Toledo, O.
Payne, Roy Alpha, *s*	A.B. (*Carleton c.*) '06. Physics	Northfield, Minn.
Peak, Bessie Ola, *s*	A.B. (*Drury c.*) '05. Latin	Springfield, Mo.
Pearce, Grace, *s*	A.B. (*Lake Forest c.*) '94. German	Waukegan
Pease, Samuel James, *s*	A.B. (*Northwestern u.*) '97; A.M. (*Ibid.*) '98. Latin, Greek	Highwood
Peede, Stella, *s*	A.B. (*Indiana u.*) '04; A.M. (*Ibid.*) '05. Latin	Goshen, Ind.
Perkins, Mary, *s*	Ph.B. (*u. of Chicago*) '97. English	Chicago
Pesta, Rose Alice	L.B. (*u. of Wisconsin*) '02; L.M. (*Ibid.*) '03. Mathematics	Chicago
Peters, Louise Marie, *s*	A.B. (*u. of California*) '01; A.M. (*Ibid.*) '05. Latin, Greek	Marne, Ia.
Peterson, Elmer George, *s*	S.B. (*Agricultural c. of Utah*) '04. Zoölogy	Logan, Utah
Peterson, Joseph, *s a w*	S.B. (*u. of Chicago*) '05. Psychology, Neurology (*fel.*)	Oakley, Idaho
Peterson, Peter Powell, *s a w*	S.B. (*Brigham Young u.*) '05. Zoölogy	Ogden, Utah
Petrea, Joseph Allen, *s*	A.B. (*Midland c.*) '06. Mathematics	Atchinson, Kan.
Pettit, Bertholf Marsh, *a w*	Ph.B. (*u. of Chicago*) '06. Physics, Mathematics	Kenosha, Wis.
Pfeiffer, Wanda May, *s a*	S.B. (*u. of Chicago*) '04. Botany	Chicago
Pfuhl, Sophie Augusta, *s*	A.B. (*Bryn Mawr c.*) '00. Greek	Harrisburg, Pa.
Phillips, Eugene Martin, *s*	A.B (*u. of Illinois*) '04. Chemistry	Lena
Phillips, Marvin William, *s*	A.B (*u. of Alabama*) '02; A.M. (*Ibid.*) '05. Romance	Esley, Ala.
Pickel, Frank Welborn, *s*	A.B (*Furman u.*) '86; S.M. (*u. of South Carolina*) '90; S.M. (*u. of Chicago*) '99. Zoölogy	Fayetteville, Ark.
Pierce, Edwin Griffin, *s*	Ph.B. (*Kalamazoo c.*) '02; Ph.B (*u. of Chicago*) '02. Chemistry, Physics	Marcellus, Mich.
Pike, Frank Henry, *s a w*	A.B. (*Indiana u.*) '03. Anatomy, Physiology (*fel.*)	Plainfield
Pitcher, Arthur Duner, *s*	A.B. (*u. of Kansas*) '06. Mathematics	Havensville, Kan.
Plum, Harley Martin, *s*	A.B. (*Ohio State u.*) '02. Chemistry	Ashville, O.
Polhill, Thomas Goldwire, *s*	A.B. (*Mercer u.*) '00. Education	Hawkinsville, Ga.
Pomeroy, Alice Gertrude, *s*	S.B. (*Kalamazoo c.*) '04; S.B. (*u. of Chicago*) '05. Romance	Kalamazoo, Mich.
Poppen, Albertus, *a w*	S.B. (*u. of Chicago*) '06. Physiology	Ireton, Ia.
Porter, Eugene Lyman, *s*	A.B. (*Harvard u.*) '04. Zoölogy	Springfield
Posey, Francis Dunnington, *s a w*	A.B. (*Western c. Md.*) '96. Mathematics	Doncaster, Md.
Potts, Frank Glenn, *s*	A.B. (*South Carolina c.*) '05. German	Fort Mill, S. C.
Pound, Lenora, *s*	S.B. (*u. of Chicago*) '03. Botany	Terre Haute, Ind.
Powell, Nellie Virginia, *s*	A.M. (*Randolph Macon Woman's c.*) '00. English	Woodview, Va.
Powell, Wade Hampton, *s*	S.B. (*u. of Chicago*) 05. Chemistry	Cuero, Tex.
Prewitt, Mary Trimble, *a w*	A.B. (*Howard c.*) '73. Mathematics	Fayette, Mo.
Pritchard, Margaret Mabel, *s*	A.B. (*Franklin c.*) '99. Latin	Franklin, Ind.
Prosser, Frances Louise, *s*	A.M. (*Howard Payne c.*) '81. English	Lexington, Mo.
Pruner, Mae Veronica, *s a w*	A.B. (*Wittenberg c.*) '99. History	Dean, O.
Putnam, John Jacob, *s a w*	S.B. (*u. of Denver*) '04. Chemistry, Mathematics (*fel.*)	Gibbon, Neb.
Quaife, Milo Milton, *a w*	Ph.B. (*Iowa c.*) '03; A.M. (*u. of Missouri*) '05. History (*fel.*)	Nashua, Ia.
Quillian, Marvin Clarke, *s*	A.B. (*Emory c.*) '95; A.M. (*Vanderbilt u.*) '00. Zoölogy	Fort Worth, Tex.
Radford, Alice Evelyn, *s*	Ph.B. (*u. of Chicago*) '00. Romance	Chicago
Raiford, Lemuel Charles, *s*	Ph.B. (*Brown u.*) '00; A.M. (*Ibid.*) '04. Chemistry	Agricultural College, Miss.
Rattray, Jennie MacHardy, *s*	A.B. (*u. of Chicago*) '02. Greek	Chicago
Ray, Edward, *a w*	A.B. (*u. of North Carolina*) '03; A.M. (*Harvard u.*) '06. English, German	Barnard, N. C.
Reavis, William Claude, *s*	A.B. (*Oakland City c.*) '05. Philosophy, History	Francisco, Ind.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Redmon, Andrew Jackson, *s*	A.B. (*Indiana u.*) '01. Physiology	Peru, Ind.
Reece, Susan Hattie, *s a*	A.B. (*Indiana u.*) '02. Latin	Stafford, Kan.
Reed, William John, *a w*	S.B. (*Northwestern u.*) '05. Geology, Paleontology (*fel.*)	Glen View
Reedy, John Henry, Jr., *s*	A.M. (*Southwestern u.*) '00. Chemistry	San Marcos, Tex.
Reid, Elizabeth, *s*	Ph.B. (*Wooster u.*) '99. Romance	Huron, S. D.
Rice, Caroline Montgomery, *s*	Ph.B. (*u. of Chicago*) '06. English	Peoria
Rice, Charles Donnell, *s*	S.B. (*Vanderbilt u.*) '91; S.M. (*Ibid.*) '92. Mathematics	Austin, Tex.
Rice, Emily Jane, *s*	Ph.B. (*u. of Chicago*) '03. History	Chicago
Rice, Nannie Herndon, *s*	A.B. (*Mississippi State c. for Women*) '05. Mathematics	Oktoc, Miss.
Richardson, Florence Ella, *s a w*	A.B. (*u. of Nebraska*) '02. Psychology, Education (*fel.*)	Lincoln, Neb.
Riddle, Oscar, *a w*	S.B. (*Indiana u.*) '02. Chemistry, Zoölogy	Bloomfield, Ind.
Rigg, George Burton, *s*	S.B. (*State u. of Iowa*) '96. Botany	Woodbine, Ia.
Riley, Elmer Author, *s a w*	A.B. (*Baker u.*) '05. History, Political Economy	Baldwin, Kan.
Risser, Christian Hoffer, *s*	A.B. (*Franklin and Marshall c.*) '01. Chemistry, Anatomy	Filorin, Pa.
Robbins, Charles Leon, *s*	A.B. (*Kansas u.*) '02; A.M. (*Ibid.*) '03. Psychology	Dillon, Mont.
Roberts, Beulah Statira, *s*	A.B. (*u. of Kansas*) '01. English, German	Lawrence, Kan.
Roberts, Edith Adelaide, *w*	A.B. (*Smith c.*) '05. Botany	Jorce, N. H.
Roberts, Ruth, *a w*	Ph.B. (*Iowa c.*) '05. English, History of Art	Postville, Ia.
Robinson, Robert Pomeroy, *s*	S.B. (*Beloit c.*) '05. Physics	Beloit, Wis.
Rochlitz, Lucille, *w*	A.B. (*u. of Chicago*) '06. Latin	Chicago
Rogers, May Harding, *a w*	A.B. (*Lake Forest c.*) '99. Chemistry	Chicago
Roman, Frederick William, *s*	A.B. (*Yale u.*) '02. Sociology	Bowling Green, Ky.
Rosario y Valdezco, José I. del, *a w*	A.B. (*Manila Licentiate in Pharmacy, St. Thomas u. of Manila*) '05. Chemistry	Manilla, P. I.
Rose, Dean Humboldt, *s*	A.B. (*u. of Kansas*) '04; A.M. (*Washington u.*) '05. Zoölogy	Cowper City, Kan.
Rosenberger, Ethel, *s*	A.B. (*Penn c.*) '02. German	Oskaloosa, Ia.
Rosholt, Albie Jens, *s*	A.B. (*Luther c.*) '03. Anatomy	Rosholt, Wis.
Ross, Elizabeth Ann, *s*	A.B. (*Fisk u.*) '03. Latin, German, Romance	Montgomery, Ala.
Ross, Jennie McDill, *s*	S.B. (*Monmouth c.*) '83. History	Omaha, Neb.
Ross, Lydia Mary, *s*	S.B. (*Monmouth c.*) '90. Latin	Omaha, Neb.
Ross, Mary Sophia, *s*	A.B. (*Dalhousie c.*) '94; A.M. (*Ibid.*) '96. Anatomy	Ross Corner, P. E. I., Can.
Rosser, John Elijah, *s*	Ph.B. (*Emory c.*) '02. Philosophy, Sociology	Nashville, Tenn.
Rowan, Jennie, *s*	A.B. (*Blue Mount c.*) '95. English	Wesson, Wis.
Rowe, Eugene Charles, *s*	A.B. (*Olivet c.*) '97. Philosophy, History	Mt. Pleasant, Mich.
Rudolph, Edith, *a w*	A.B. (*Indiana u.*) '06. Romance, English (*fel.*)	Crown Point, Ind.
Rumold, Christian Ferdinand, *s*	LL.B. (*u. of Kansas*) '00; A.B. (*Ibid.*) '02. Physics	Berea, Ky.
Rysgaard, Jens Madsen, *s*	A.B. (*u. of North Dakota*) '03. Mathematics	Grand Forks, N. D.
Saam, John Gustave, *s*	S.B. (*Lenox c.*) '00. Anatomy, Physiology	Lansing, Ia.
Sanford, Frederick Warren, *s*	S.B. (*Illinois c.*) '90; A.B. (*Ibid.*) '94. Greek, Latin	Jacksonville
Savage, Louise Forester, *s*	A.M. (*Southwest Baptist u.*) '00. Greek	Jackson, Tenn.
Savage, Thomas Edmund, *s*	A.B. (*Iowa Wesleyan u.*) '95; S.B. (*State u. of Iowa*) '97; S.M. (*Ibid.*) '98. Mathematics	Urbana
Sawyer, Albert Marion, *a w*	A.B. (*Yale u.*) '05. Philosophy, English	Fort Recovery, O.
Sawyer, Mary Louise, *s*	S.B. (*Beloit c.*) '02. Botany	Oak Park
Scherz, Anna Talea, *a w*	Ph.B. (*u. of Chicago*) '05. German	Chicago
Schmitt, Louis Bernard, *s*	Ph.B. (*Cornell c.*) '01; A.M. (*Ibid.*) '06. History	Waterloo, Ia.
Schmitt, Clara, *s*	A.B. (*u. of Missouri*) '05. Psychology	Lowry City, Mo.
Schoonover, Draper Tolman, *s a w*	A.B. (*Washburn c.*) '99. Latin, Greek (*fel.*)	Chicago
Schwiekert, Harry Christian, *s*	A.B. (*Princeton u.*) '03. English, Philosophy, Psychology	Reading, Pa.
Schweitzer, Arthur Richard, *a w*	Ph.B. (*u. of Chicago*) '00; S.M. (*Ibid.*) '05. Mathematics	Chicago
Schweitzer, Louise, *s*	A.B. (*u. of Michigan*) '03. Geography	Grand Rapids, Mich.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Scott, Margaret Whitsett, *s*	A.B. (*Industrial inst. and c. of Mississippi*) '02. English	Poplarville, Miss.
Scott, Robert Bruce, *s*	Ph.B. (*u. of Pennsylvania*) '95. Political Science	Aurora
Sears, Vertie, *s*	Ph.B. (*Grand Island c.*) '01. German	Pella, Ia.
Sellards, Mary Watson, *s*	A.B. (*Kansas u.*) '00; A.M. (*Ibid.*) '01. German	Scranton, Kan.
Sellars, Roy Wood, *s*	A.B. (*u. of Michigan*) '03. Psychology	Pennebog, Mich.
Severinghaus, Willard Leslie, *s*	A.B. (*German Wallace c.*) '04; A.M. (*Ibid.*) '05. Physics	Moores Hill, Ind.
Sharp, Margaret, *s*	Ph.B. (*Northwestern u.*) '02. History	Warsaw, Ind.
Shartau, Gustavus Adolphus, *s*	Ph.B. (*u. of Michigan*) '91. Mathematics	Chicago
Shattuck, Charles Huston, *s*	S.B. (*u. of Chicago*) '03. Botany	Topeka, Kan.
Shaw, Edna, *a w*	A.B. (*Friends u.*) '01. English	Wichita, Kan.
Shaw, Eugene Wesley, *a w*	S.B. (*Ohio Wesleyan u.*) '05. Geology	Delaware, O.
Sheldon, Frances Theodosia, *s a w*	S.B. (*Cornell u.*) '92. Botany, Zoölogy	Martinsburg, N. Y.
Shelford, Victor Ernest, *s a w*	S.B. (*u. of Chicago*) '03. Zoölogy, Botany	Lowman, N. Y.
Sherman, Ella Aurelia, *w*	A.B. (*Oberlin c.*) '94. Pathology.	National, Ia.
Shirk, James Abram Garfield, *s*	A.M. (*McPherson c.*) '02; S.M. (*u. of Kansas*) '05. Mathematics	McPherson, Kan.
Shorey, Marian Lydia, *s a*	Ph.B. (*Brown u.*) '04; A.M. (*Ibid.*) '06. Zoölogy	Albion, Me.
Short, Frances Elizabeth, *s*	A.B. (*Leland Stanford u.*) '02. English	Reno, Nev.
Shull, Charles Albert, *s*	S.B. (*u. of Chicago*) '05. Zoölogy	New Carlisle, O.
Simpson, Benjamin Roy, *s*	A.B. (*McMaster u.*) '99. Psychology, Sociology	Niagara Falls, Ont.
Sims, Henry, *a w*	A.B. (*u. of Nashville*) '99. Philosophy, Mathematics, Political Science	Comanche, Tex.
Sinsheimer, Estelle, *a*	A.B. (*Leland Stanford u.*) '96. History, German	Chicago
Skelton, Oscar Douglas, *s*	A.M. (*Queens u.*) '99. Political Economy, Latin, Greek	Mille Roches, Ont.
Skinner, Jessie Amanda, *s*	Ph.B. (*Baker u.*) '98. English	Baldwin, Kan.
Sleight, George Newton, *a w*	A.B. (*Williams c.*) '93. Greek, Latin	Elgin
Smart, Walter Kay, *a w*	Ph.B. (*u. of Chicago*) '02. English, German	Payson
Smetzly, Eleanor, *s*	A.B. (*Indiana u.*) '00. History	Fort Wayne, Ind.
Smeltzly, Mary Catherine, *s*	A.B. (*Indiana u.*) '00. Latin	Fort Wayne, Ind.
Smiley, Cora De Yarman, *s*	S.B. (*Parsons c.*) '94; S.M. (*Ibid.*) '00. English	Winfield, Ia.
Smiley, Thomas, *a w*	S.B. (*Iowa c.*) '06. Botany	Malcom, Ia.
Smith, Alexander W., *s a*	A.B. (*Dalhousie c.*) '95; A.M. (*Princeton u.*) '98. History	Hopkinton, Ia.
Smith, Arthur, *s*	A.B. (*u. of Toronto*) '00. Chemistry	Renfrew, Ont.
Smith, Ernest Thomas, *s*	A.B. (*Bowdoin c.*) '01. History	Gray, Me.
Smith, Franklin Hans, *s*	A.B. (*u. of Texas*) '00; A.M. (*Ibid.*) '01; A.M. (*Harvard u.*) '04. Mathematics	Chicago
Smith, Herbert Royl, *s*	A.B. (*Cornell c.*) '03. Chemistry	Corning, Ia.
Smith, James Calvin, *s*	A.B. (*Howard c.*) '96; Ph.B. (*u. of Chicago*) '03. Mathematics	Pearson, Ala.
Smith, Marcia Olive, *s*	A.B. (*u. of Chicago*) '02. Sociology	Harvey
Smith, Roy, *w*	A.B. (*u. of Illinois*) '02. Political Science, History, Political Economy	Pontoosne
Snow, Jennie Helen, *a w*	S.B. (*u. of Chicago*) '06. Household Administration, Chemistry	Chicago
Snyder, Flora Winifred, *s*	Ph.B. (*Moores Hill c.*) '04; A.M. (*Ibid.*) '05. English, Latin	Moores Hill, Ind.
Sonna, Agatha Jean, *s*	A.B. (*Wellesley c.*) '99; A.M. (*Columbia u.*) '03. English	Boise, Idaho
Soyez, Mary Cunningham, *s*	A.B. (*Shepardson c.*) '97. Latin	Mansfield, O.
Spalding, Mary Doan, *a w*	A.B. (*u. of Chicago*) '96. English	Murray, Idaho
Speidel, Ida Theresia, *s*	S.B. (*State u. of Iowa*) '03; S.M. (*Ibid.*) '04. Mathematics	Iowa City, Ia.
Spencer, Matthew Lyle, *s a w*	A.B. (*Kentucky Wesleyan c.*) '03; A.M. (*Ibid.*) '04; A.M. (*Northwestern u.*) '05. English, German (*fel.*)	Atlanta, Ga.
Sperlin, Ottis Bedney, *s*	A.B. (*Indiana u.*) '03. English	Kokomo, Ind.
Spurgeon, Charles Haddon, *s*	A.B. (*Franklin c.*) '06. Botany	Franklin, Ind.
Staib, Otto William, *s a w*	Ph.B. (*u. of Chicago*) '06. Chemistry	Bartlett
Staley, George Cooper, *s*	A.B. (*Stetson u.*) '05; A.B. (*u. of Chicago*) '05. Physics	Dade City, Fla.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Stannard, Elizabeth Susan, *s*	A.B. (*Ottawa u.*) '05. Greek	Ottawa, Kan.
Stanton, Alta, *s*	A.B. (*u. of Kansas*) '97. English	Lawrence, Kan.
Stanton, Frank Everett, *a w*	S.B. (*Iowa c.*) '06. Physiology, Anatomy	Humbolt, Ia.
Starbird, Myrtle Irene, *s*	A.B. (*u. of Chicago*) '04. English	Chicago
Starbird, Robert Stinson, *s*	A.B. (*u. of Chicago*) '03. English	Chicago
St. Clair, Florence Aurelia, *a*	A.B. (*Des Moines c.*) '06. Latin, Greek	Hampton, Ia.
Stearns, Clara M., *a w*	Ph.B. (*u. of Chicago*) '06. German	Cleveland, O.
Stearns, Tilden Hendricks, *s a w*	A.B. (*Brown u.*) '03. Zoölogy	Wilmot, N. H.
Stebbins, Althea Violet, *a*	Ph.B. (*u. of Chicago*) '99. History	Chicago
Stelter, Benjamin Franklin, *s*	A.B. (*u. of Kansas*) '05. English	Lawrence, Kan.
Stephens, George Asbury, *s*	A.B. (*Baker u.*) '99; A.M. (*u. of Chicago*) '06. Sociology	Topeka, Kan.
Stephens, Thomas Calderwood, *s*	(*Duquesne c.*); (*Adrain c.*); Zoölogy, Chemistry	Kansas City, Kan.
Stetson, Charlotte Henrich, *s*	S.B. (*Knox c.*) '93; S.M. (*Ibid.*) '98. Geology	Galesburg
Stevens, Caroline Harris, *w*	A.B. (*Vassar c.*) '00. English	Rochester, N. Y.
Stevens, Mary Corinne, *s*	A.B. (*u. of Nashville*) '93. Latin	Baton Rouge, La.
Stevenson, Marcia Jacobs, *s*	A.B. (*State u. of Iowa*) '98. Sociology	Iowa City, Ia.
Stewart, Gertrude, *s*	A.B. (*u. of Denver*) '04. English, History	Denver, Colo.
Stickles, Arndt Matthis, *s*	A.B. (*Indiana u.*) '97; A.M. (*Ibid.*) '04. History	Evansville, Ind.
Stokes, Merle Benefiel, *a w*	A.B. (*Wabash c.*) '05. Anatomy, Chemistry	Lebanon, Ind.
Stokey, Alma Gracey, *a w*	A.B. (*Oberlin c.*) '05. Botany	Oberlin, O.
Stout, Selatie Edgar, *s*	A.B. (*William Jewell c*) '01. Latin, Greek	Liberty, Mo.
Stout, Mrs. Selatie Edgar, *s*	A.B. (*u. of Missouri*) '04. English	Liberty, Mo.
Strauss, Harry H., *s*	A.B. (*u. of Wooster*) '04. Latin, History	Orrville, O.
Strawn, John Thomas, *w*	S.B. (*u. of Chicago*) '06. Anatomy, Pathology	Palo, Ia.
Stritch, Thomas Edgar, *s*	Ph.B. (*St. Charles c.*) '95. Chemistry	Mobile, Ala.
Strohm, Edna Pearl, *s*	A.B. (*Wellesley c.*) '05. English	Joliet
St. Sure, Frank Adolph, *a w*	S.B. (*u. of Wisconsin*) '03. Anatomy, Physiology (*fel.*)	Madison, Wis.
Styles, Albert Frederick, *s*	Ph.B. (*Penn c.*) '92; A.M. (*Ibid.*) '95. Political Economy	New Providence, Ia.
Sundell, Ernest William, *s*	S.B. (*u. of Chicago*) '04. Physics	Kankakee
Sutherland, Arthur Howard, *a w*	A.B. (*Grand Island c.*) '99. Sociology, Psychology	Grand Island, Neb.
Sutherland, Edwin Hardin, *a w*	A.B. (*Grand Island c.*) '04. Sociology	Grand Island, Neb.
Sutherland, Nellie May, *s*	A.B. (*Grand Island c.*) '02. English	Grand Island, Neb.
Swan, Grace Newell, *a w*	S.B. (*Iowa Wesleyan u.*) '00. Mathematics, Physics	Mt. Pleasant, Ia.
Swan, Norma Lippincott, *a w*	A.B. (*Woman's c. Baltimore*) '01. English	Navesink, N. J.
Swanson, William Walker, *a w*	A.M. (*Queens u.*) '05. Political Economy, History (*fel.*)	Oshawa, Can.
Swezey, Lewis R., *s*	A.B. (*Beloit c.*) '05. German	Beloit, Wis.
Swift, Charles Henry, *a w*	A.B. (*u. of Chicago*) '03. Botany, Anatomy	Chicago
Tackaberry, Wilson Hamilton, *s*	A.B. (*u. of Toronto*) '04; A.M. (*Ibid.*) '05. Greek, Latin	Kempville, Ont.
Taintor, Sarah Augusta, *a w*	A.M. (*Columbia u.*) '06. English	East Avon, N. Y.
Takahashi, Katashi, *a w*	(*Imperial u. of Japan*) '01. Neurology (*fel.*)	Tokyo, Japan
Talbert, Ernest Lynn, *s a w*	A.B. (*Butler c.*) '01; A.B. (*u. of Chicago*) '01. Psychology, Philosophy, Sociology	Indianapolis, Ind.
Talbot, Eugene, *a w*	A.B. (*Harvard u.*) '06. Chemistry, Anatomy	Chicago
Tanner, Alvin Charles, *a w*	S.B. (*u. of Chicago*) '06. Political Science, Political Economy	Birch Run, Mich.
Tanner, Jesse A., *a w*	A.B. (*u. of North Dakota*) '05; A.M. (*Ibid.*) '06. History	Pleasantville, Pa.
Taylor, Daniel Pomeroy, *s*	A.B. (*u. of Colorado*) '00; A.M. (*Ibid.*) '03. Education, Political Science	Victor, Colo.
Taylor, Miriam Maud, *s*	A.B. (*Earlham c.*) '01. English	West Elkton, O.
Taylor, Seaton Crystelle, *s*	A.B. (*Wesleyan c., Ga.*) '03. Romance	Hawkinsville, Ga.
Temple, Allen Porter, *s a w*	A.B. (*Ohio Wesleyan u.*) '98. Chemistry	Lindale, O.
Temple, Frances Congdon, *s*	Ph.B. (*u. of Chicago*) '02. Philosophy, Political Economy	Chicago
Terry, Schuyler Baldwin, *a w*	A.B. (*u. of Chicago*) '05. History	Chicago

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Test, Louis Agassiz, *s a w*	B.M.E. (*Purdue u.*) 94; A.C. (*Ibid.*) '96. Chemistry	Lafayette, Ind.
Thacher, William Franklin Goodwin, *s*	A.B. (*Princeton u.*) '00. English	Concord, Mich.
Thayer, Aline, *s*	Ph.B. (*u. of Chicago*) '01. Household Administration	Chicago
Theiss, Edwin Leodgar, *s*	A.B. (*Northwestern c.*) '05; Ph.B. (*Ibid.*) '05. Greek, German	Oswego
Thiessen, Reinhardt, *a w*	S.B. (*u. of Chicago*) '02. Botany, Zoölogy (*fel.*)	New Holstein, Wis.
Thompson, Carl William, *s*	A.B. (*Valparaiso c.*) '00; A.M. (*South Dakota u.*) '03; A.M. (*Harvard u.*) '04. Political Economy	Vermillion, S. D.
Thompson, Guy Andrew, *s a w*	A.B. (*u. of Illinois*) '98; A.B. (*Harvard u.*) '00; A.M. (*Ibid.*) '01. English	Santa Ana, Calif.
Thompson, Margaret Eleanor, *s*	S.B. (*Doane c.*) '86; A.M. (*u. of Nebraska*) '97. English	Crete, Neb.
Thompson, Mary Octavine, *s*	L.B. (*Drury c.*) '04. German, English	Springfield, Mo.
Thompson, Oliver Scott, *s*	A.B. (*Lake Forest c.*) '04. Physiology	Hinsdale
Thompson, Robert Neal, *a w*	S.B. (*u. of Nashville*) '05. Mathematics, Physics	Kingston Springs, Tenn.
Tibbets, Anna, *s*	A.B. (*u. of Nebraska*) '04. Philosophy	Lincoln, Neb.
Tierney, Mary Elizabeth, *a*	S.B. (*u. of Chicago*) '02. History, Mathematics	Chicago
Tilson, Mack, *a w*	A.M. (*Franklin c.*) '03. Greek, Latin	Whiteland, Ind.
Tilton, John Littlefield, *s*	A.B. (*Wesleyan u.*) '85; A.M. (*Ibid.*) '88; A.M. (*Harvard u.*) '95. Geology	Indianola, Ia.
Todd, David Duke, *a w*	S.B. (*Coe c.*) '05. Physiological Chemistry	Ida Grove, Ia.
Torrey, Nellie, *s*	A.B. (*Indiana inst.*) '98. Latin, English, German	Greenwood, Miss.
Trever, Albert Augustus, *s*	Ph.B. (*Lawrence u.*) '96; S.T.B. (*Boston u.*) '00. Greek	Horicon, Wis.
Trexler, Harrison Anthony, *a w*	Ph.B. (*Bellevue c., Neb.*) '03. History, Political Science	Bennett, Neb.
Trimble, Alta Marcella, *s*	L.B. (*Ohio Wesleyan u.*) '00. English	Evansville, Ind.
Trowbridge, Carl Hoyt, *s*	A.B. (*Harvard u.*) '01; A.M. (*Ibid.*) '02. Chemistry	St. Louis, Mo.
Turner, Harry Benton, *s*	A.B. (*Hiram c.*) '02. Philosophy	Flushing, O.
Turner, James Jesse, *s*	Ph.B. (*Hiram c.*) '02. Chemistry, Physics	Hiram, O.
Twiss, Edith Minot, *s a w*	A.B. (*Ohio State u.*) '95. Botany, Zoölogy	Cleveland, O.
Tyler, Leon Lewis, *s*	LL.B. (*u. of Michigan*) '00; A.B. (*Earlham c.*) '06. English	Fairmount, Ind.
Ullman, Berthold Louis, *a w*	A.B. (*u. of Chicago*) '03. Latin, Greek (*fel.*)	Chicago
Unnewehr, Emma, *s*	Ph.B. (*Franklin c.*) '04. German	New Point, Ind.
Unnewehr, George Louis, *s a w*	Ph.B. (*Franklin c.*) '04. German	New Point, Ind.
Unwerth, Erdmuthe von, *s*	A.B. (*u. of Kansas*) '02. German	Kansas City, Mo.
Usher, George Ephraim, *s a*	A.B. (*u. of Georgia*) '00, Latin, English	Summit, Ga.
Van Aken, Sadie, *s*	A.B. (*Emporia c.*) '00. History	Paola, Kan.
Van Buren, Chester Granville, *s*	S.B. (*Brigham Young c.*) '06. Botany	Provo, Utah
Vance, Cecil Edgar, *s*	A.B. (*Wilmington c.*) '90; A.M. (*Ibid.*) '91. Greek	Toledo, O.
Van de Erve, John, *w*	A.B. (*Hope c.*) '95; A.M. (*Princeton*) '97; B.D. (*Ibid.*) '99. Anatomy	Libertyville
Van Horne, Robert Negley, *s*	Ph.B. (*Morningside c.*) '98. Astronomy	Sioux City, Ia.
Verity, Walter, *s a w*	A.B. (*Lawrence u.*) '01. Anatomy	Appleton, Wis.
Verry, William Leslie, *s*	A.B. (*u. of Chicago*) '02. Latin	Remington
Vincent, Eleanor Marie, *s*	A.B. (*Westminster c.*) '03. Latin	Allegheny, Pa.
Vincent, Stella Burnham, *w*	S.B. (*u. of Chicago*) '06. Psychology	Hampton
Visher, Dorothy, *s*	S.B. (*u. of Chicago*) '06. Geography	Forestburg, S. D.
Voelker, Paul Frederick, *s*	Ph.B. (*Drake u.*) '06. German	Des Moines, Ia.
Von Eschen, Florian, *s*	Ph.B. (*Simpson c.*) '98; Ph.M. (*Ibid.*) '99. Chemistry, Physics	Shelby, Ia.
Wadsworth, Heilman Curtis, *a w*	A.B. (*Indiana u.*) '02. Anatomy	Washington, Ind.
Wagner, Nicholas Bacon, *a w*	Ph.B. (*u. of Wisconsin*) '06. Anatomy, Chemistry	Menasha, Wis.
Waldo, Karl Douglas, *s*	A.B. (*u. of Illinois*) '06. History, Political Economy	Rockford
Walker, Byrd Casselle, *s*	A.B. (*Mississippi c.*) '05. Mathematics	Columbus, Miss.
Walker, William Oscar, *s w*	A.B. (*u. of Toronto*) '02; A.M. (*Ibid.*) '04. Physiology	Chicago

NAME	DEGREE ; DEPT. OF STUDY	HOME ADDRESS
Wall, Lucile, *s*	A.B. (*u. of Nashville*) '01. Chemistry	Dallas, Tex.
Wallace, Brice Russell, *a w*	S.B. (*Albany c.*) '04. Anatomy	Albany, Ore.
Wallace, Sarah Agnes, *s*	Ph.B. (*u. of Chicago*) '02. History, English	Washington, D. C.
Wallace, Sloane M., *s*	L.B. (*Lenox c.*) '00. English	Hopkinton, Ia.
Ware, Elizabeth Luella, *a w*	Ph.B. (*u. of Chicago*) '04. History, English	Eaton
Warren, Mary O'Brien, *a w*	A.B. (*Fairmount c.*) '01. Household Administration	Wichita, Kan.
Washburn, Chester Wesley, *a w*	A.B. (*u. of Oregon*) '05. Geology (*fel.*)	Eugene, Ore.
Watkins, Edmund Daugherty, *a w*	S.B. (*Ohio Wesleyan u.*) '88. Philosophy	Chicago
Watkins, Laura Dell, *a*	S.B. (*u. of Chicago*) '06. Botany	Chicago
Watson, Emery Earnest, *s*	S.M. (*State u. of Iowa*) '06. Mathematics, Physics	Wheaton
Watson, Joseph Ralph, *s*	S.B. (*Baldwin u.*) '97; A.M. (*Western Reserve u.*) '99. Zoölogy	Manitowoc, Wis.
Watts, Cicero Floyd, *s*	A.B. (*Washington and Lee u.*) '03. Political Economy, History	Columbus, Miss.
Waugh, Anna May, *s*	A.B. (*Cornell c.*) '01; A.B. (*u. of Chicago*) '04. Physics	Belle Plaine, Ia.
Webster, Edgar Huidekoper, *s*	A.M. (*Atlanta u.*) '97; S.B. (*u. of Chicago*) '05. Geology	Atlanta, Ga.
Weck, Frederick William, *s*	A.B. (*Indiana u.*) '05. German	Urbana, Ind.
Weeks, Marie, s	S.B. (*Carleton c.*) '03. Physics	Charles City, Ia.
Welch, Mary Draper, *s*	A.B. (*Albion c.*) '91. History, English, Latin	Mishawaka, Ind.
Wells, Robert Bruce, *s*	M.B. (*Toronto u.*) '94. Anatomy	Toronto, Can.
Wenner, Jessie Sharper, *s*	A.B. (*Woman's c. of Baltimore*) '96. Latin	Baltimore, Md.
Wentworth, Bertha Evelyn, *s*	A.B. (*Friends u.*) '03. English, Latin	Wichita, Kan.
Wentz, Estelle Kate, *s*	S.B. (*Purdue u.*) '87; S.M. (*Ibid.*) '90; S.M. (*Cornell u.*) '94. Mathematics	Indianapolis, Ind.
Westlake, Florence Louise, *s*	A.B. (*Oberlin c.*) '02. English, History	Mt. Vernon, O.
Wheeler, Albert Joe, *a w*	B.C.E. (*Cornell c.*) '95; C.E. (*Ibid.*) '05. Chemistry	Chicago
Wheeler, Clara Kingswell, *s*	Ph.B. (*u. of Chicago*) '05. English	Minneapolis, Minn.
Wheeless, Mable Louise, *s*	S.B. (*Lenox c.*) '99. Physics	Hopkinton, Ia.
Whitcomb, Walter Delos, *a*	S.B. (*Wheaton c.*) '05. Anatomy, Chemistry	Chicago
White, Gershom Franklin, *w*	S.B. (*Ohio State u.*) '01; Ph.D. (*Cornell u.*) '05. Anatomy, Physiology	Malta, O.
White, Richard Boyd, *s*	A.B. (*Geneva c.*) '85; A.M. (*Ibid.*) '88. Greek, Latin	Annapolis, Md.
White, Leonard Waller, *s*	A.B. (*Davidson c.*) '04. Latin, English	Chattanooga, Tenn.
White, LeRoy Branch, *s*	A.B. (*u. of Chicago*) '03. Mathematics	Kalamazoo, Mich.
White, Richardson Douglas, *s*	A.B. (*Hampden-Sidney c.*) '93. Mathematics	St. Louis, Mo.
Whitten, Herbert William, *s*	A.B. (*u. of Michigan*) '98; A.M. (*Ibid.*) '01. Greek, Latin	South Bend, Ind.
Wigger, William Frederick, *s*	S.B. (*u. of Chicago*) 05. Chemistry	Chicago
Wilcox, Maude Josephine, *w*	Ph.B. (*u. of Chicago*) '06. History	Chicago
Wild, Payson Sibley, *s a w*	A.B. (*Williams c.*) '91. Latin, Greek	Chicago
Wiley, Forbes Bayley, *s*	A.B. (*Kalamazoo c.*) '06. Mathematics	Kalamazoo, Mich.
Williams, Cora, *s*	Pd.B. (*State c. of Kentucky*) '02; S.M. (*Ibid.*) '03. Botany	Lexington, Ky.
Williams, Edward Marsh, *s*	S.B. (*u. of Chicago*) '02. Pathology	LaGrange
Williams, Pelagius, *w*	A.B. (*Emporia c.*) 02. Psychology, History, Political Economy	Emporia, Kan.
Williams, Susanna, *s*	Ph.B. (*Washington u.*) '93. Mathematics	Kirkwood, Mo.
Wilson, Adelia, *s*	A.B. (*Indiana u.*) '99. Latin, English	Merom, Ind.
Wilson, James Meredith, *s a w*	Ph.B (*Cornell u.*) '80. Chemistry	St. Louis, Mo.
Wilson, Thomas Matheson, *s*	S.B. (*Toronto u.*) '96; S.M. (*u. of Chicago*) '04. Pathology	Toronto, Can.
Wilson, William Oscar, *s*	S.B. (*u. of Arkansas*) '04. Mathematics	Fort Smith, Ark.
Wilson, Winston Peabody, *s*	A.B. (*Ouachita c.*) '05. Romance, German	Arkadelphia, Ark.
Winckley, George Ray, *a w*	A.B. (*Lawrence u.*) '06. Chemistry	Clinton, Wis.
Wolfe, Anna Lucretia, *s*	Ph.B. (*Cornell c.*) '98. Mathematics	Mt. Vernon, Ia.
Wolfe, Hattie Alena, *s a w*	A.B. (*Olivet c.*) '02. Latin, German	Angola, Ind.

NAME	DEGREE; DEPT. OF STUDY	HOME ADDRESS
Wolfson, Anna Estelle, *s*	A.B. (*Wellesley c.*) '99. English	Kansas City, Mo.
Woodard, Dudley Weldon, *w*	S.B. (*u. of Chicago*) '06. Astronomy	Galveston, Tex.
Woodbury, Charles L.	A.B. (*u. of Kansas*) '02. Physics	Paducah, Ky.
Woodford, Pearl Alice, *s*	Ph.B. (*Morningside c.*) '03. English	Sergeant Bluff, Ia.
Woods, Lebbens, *a w*	S.B. (*Midland c.*) '04. Sociology	Surprise, Neb.
Wren, Mabel Elizabeth, *s*	Ph.B. (*Ottawa u.*) '06. Physics	Kincaid, Kan.
Wreidt, Ernest August, *s a w*	Ph.B. (*Kalamazoo c.*) '00; A.B. (*u. of Chicago*) '03. Education	Chicago
Wright, Alexander Holland, *s*	A.B. (*Washington and Jefferson c.*); A.M. (*Ibid.*) Chemistry, Zoölogy	New Concord, O.
Wright, Laura May, *s*	A. B. (*u. of Chicago*) '97. Education	Chicago
Wylie, Harry Hanes, *s*	A.B. (*Muskingham c.*) '05. Latin	New Concord, O.
Yoakum, Clarence Stone, *a w*	S.B. (*Campbell u.*) '01; A.B (*Ibid.*) '02. Philosophy, English (*fel.*)	Basehor, Kan.
Yoder, Orie Chris, *a w*	Ph.B. (*u. of Wooster*) '05; S.B. (*u. of Chicago*) '06. Anatomy	Weilersville, O.
Yonker, Harry Sherwood, *s*	S.B. (*u. of Wisconsin*) '94; S.M. (*Ibid.*) '99. Philosophy	Chicago
Youmans, Dorothy Woodward, *s*	A.M. (*Buford c.*) '05. English	Sparks, Ga.
Young, Faith Louise, *s*	A.B. (*Wellesley c.*) '99. German	Austin
Young, Sophie May, *s w*	A.B. (*Wellesley c.*) '95. Botany	Kansas City, Mo.
Youngs, Georgina Jane, *a*	A.B. (*u. of Chicago*) '06. English	Rockford
Zipf, Ferdinand Joseph, *s*	A.B. (*u. of Illinois*) '02. Philosophy	Peotone
Zwick, Albert Otto, *s*	Maturitas (*Gymnasium de Stuttgart*) Anatomy	Cincinnati, O.
MEN—580	WOMEN—355	TOTAL—935

SUMMARY

	Men	Women	Total
I. Doctors of Philosophy pursuing special courses	18	6	24
II. Students admitted to candidacy for higher degrees	107	55	162
III. Students not yet admitted to candidacy for higher degrees	580	355	935
Total	705	416	1121

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